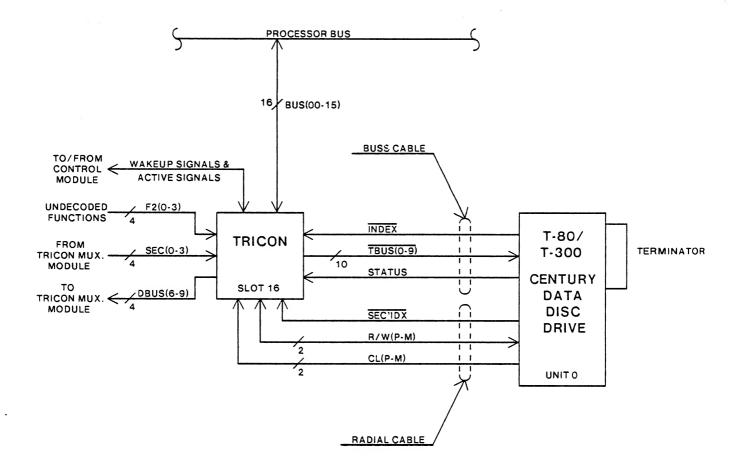
TRICON & TRICON MUX. DOCUMENTATION

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9.	Tricon Manual	Trident Disk for the Alto

TRICON MODULE BLOCK DIAGRAM



NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ITEMS 1, 2,&3 SUPPLIED AS LOOSE ITEMS, TO BE INSTALLED IN ALTO II PROCESSOR CHASSIS TO INTERFACE WITH CALIFORNIA COMPUTER PRODUCTS INC TRIDENT DISC MODEL NO. T-80. FOR ASSEMBLY AND CABLING INSTRUCTIONS SEE FIGURE 1 AND 2.
- TRIDENT DISC INTFC MODULE IS SHOWN INSTALLED IN LOCATION 18 FOR REFERENCE ONLY. ANY MODULE SLOTS FROM 15 THRU 20 MAY BE UTILIZED, HOWEVER IF ADDITIONAL TRIDENT DISC UNITS ARE TO BE ADDED IN THE FUTURE 2 ADJOINING SLOT LOCATIONS SHOULD BE RESERVED FOR TRIDENT MUX P.W. ASSY WHICH REQUIRES 2 SLOT LOCATIONS.
- EXTERNAL CABLE ASSEMBLIES, ITEM 4 & 5 ARE SHOWN FOR REFERENCE ONLY AND ARE TO BE ORDERED SEPERATELY.
- THE COMBINED LENGTH OF TRICON BUSSED CABLE TO BE MAXIMUM OF 100 FT.
- TERMINATOR MODULE, CALIFORNIA COMPUTER PORD INC, ANAHEIM, CALIF, P/N 12421-001, TO BE INSTALLED IN J2 OF DISC FILE UNIT.
- PACKAGE 1 PAIR OF ITEM 10 PER EACH CABLE ASSY (ITEM 2 & 3).

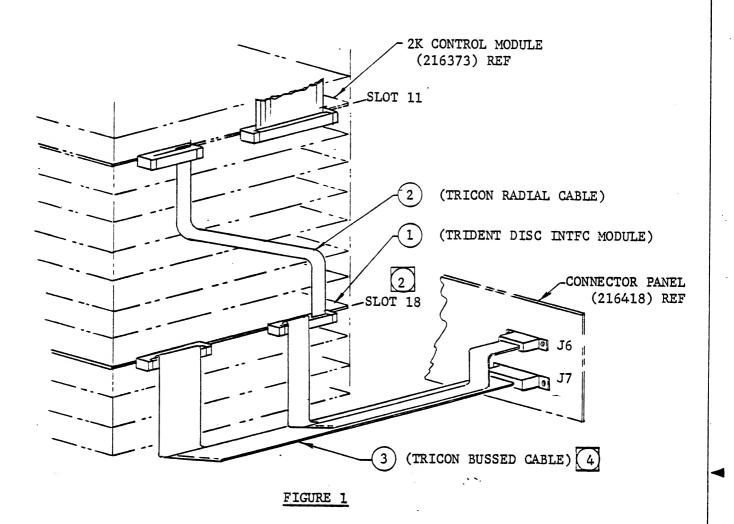
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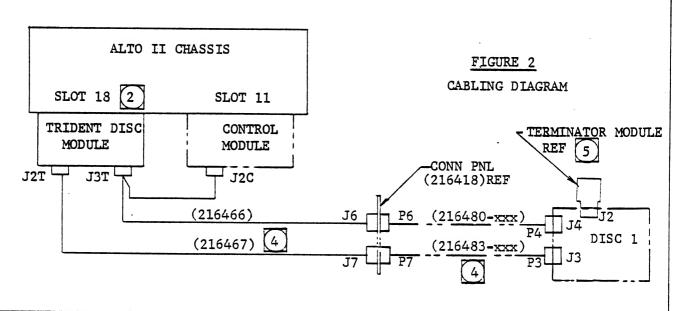
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Title

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ASSEMBLY,

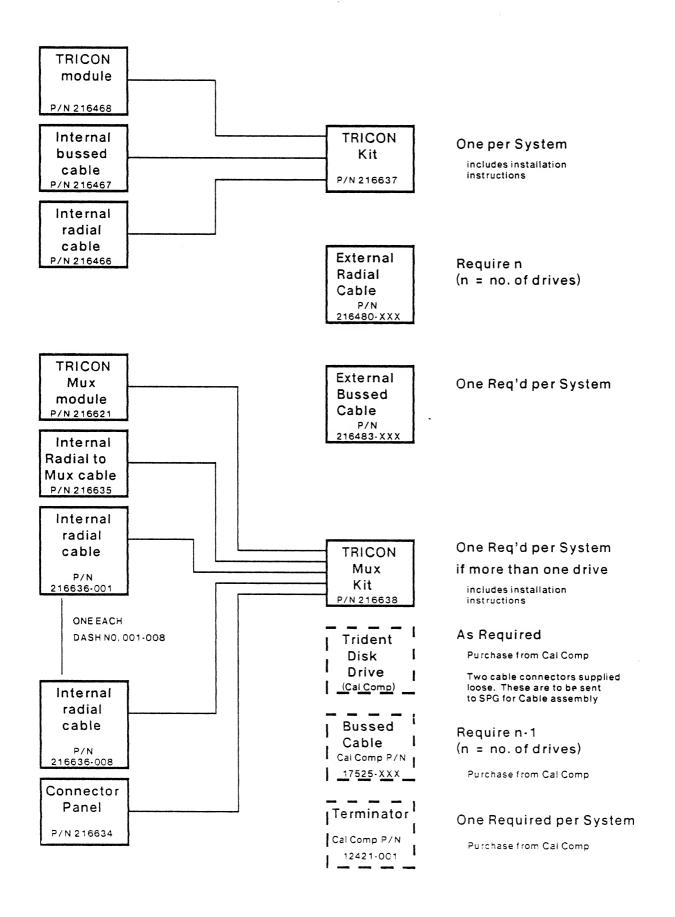
TRICON KIT

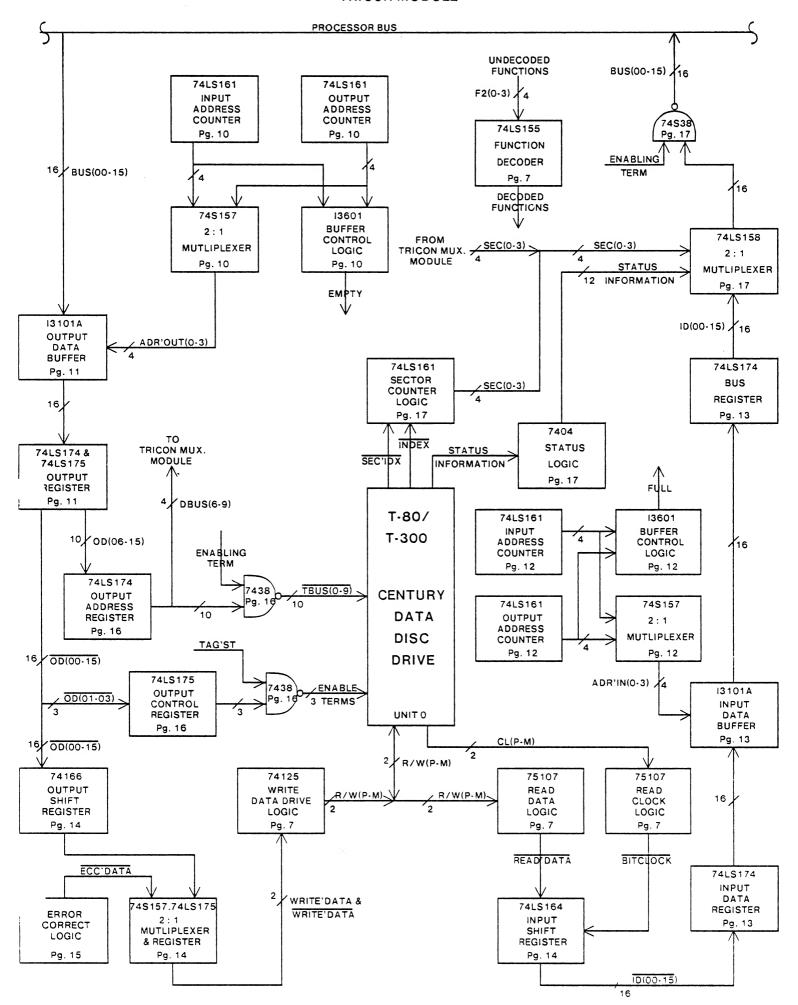
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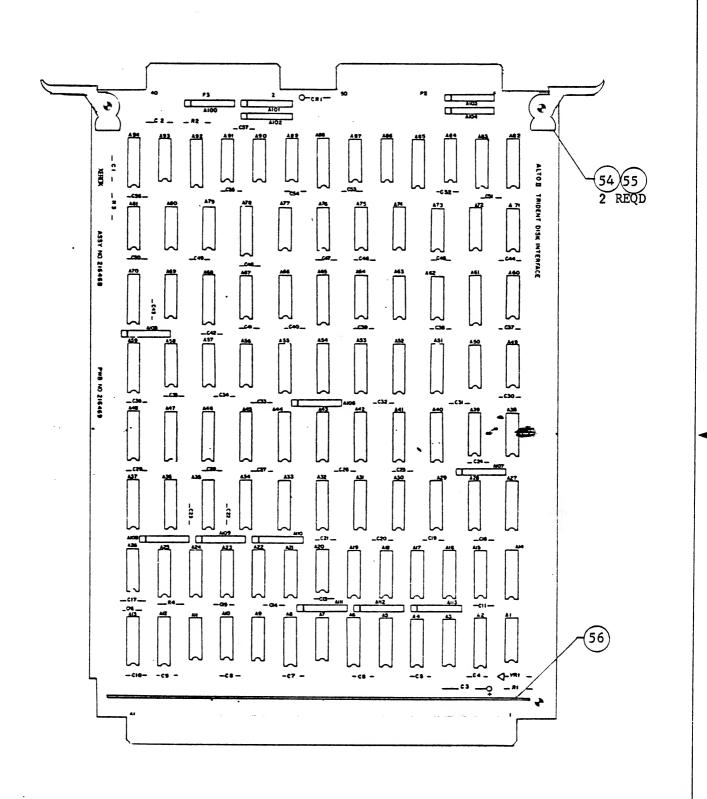


KIT be reproduced, copied or used for any purpose whats verox, Ltd Model No. EWO 390401 Date 5/20/77 Sheet 4 of 4		erial L	ist ·	▼			ML Drawing 2166	No. 37	Rev. B
1 Assy, FW - Trident Disc Interface 216468 1 2 Assy, Cable- Tricon Radial (Internal) 216466 1 6 6 4 Assy, Cable- Tricon Bussed (Internal) 216467 1 6 6 4 Assy, Cable- Tricon Bussed (External) 216480-XXX REF 3 6 Assy, Cable- Tricon Bussed (External) 216483-XXX REF 4 3 6 Assy, Trident Disc Calcomp Model T-80 REF 7 Assy, Terminator REF P/N 12421-001 5 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 6	B B	Drawing 7	ASSEMBLY, TRICON	Xerox, prior v	e the exclusive prop Ltd. issued in stric written permission of roduced,copied or u	perty of at confide f Xerox C sed for a	Xerox Corpora ence and shall Corporation or any purpose wi	tion and/or I not, witho Rank Xerox, natsoever, e	Rank ut the Ltd., except
1 Assy, FW - Trident Disc Interface 216468 1 2 Assy, Cable- Tricon Radial (Internal) 216466 1 6 6 4 Assy, Cable- Tricon Bussed (Internal) 216467 1 6 6 4 Assy, Cable- Tricon Bussed (External) 216480-XXX REF 3 6 Assy, Cable- Tricon Bussed (External) 216483-XXX REF 4 3 6 Assy, Trident Disc Calcomp Model T-80 REF 7 Assy, Terminator REF P/N 12421-001 5 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 6	. <u>.</u> . 5637					Date	5/20/77	1 /.	Of 4
3 Assy, Cable- Tricon Bussed (Internal) 216467 1 6 (4) 4 Assy, Cable- Tricon Radial (External) 216480-XXX REF (4) 3 5 Assy, Cable- Tricon Bussed (External) 216480-XXX REF (4) 3 6 Assy, Trident Disc Calcomp Model T-80 7 Assy, Terminator REF P/N 12421-001 [5] 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 [6]	2166					No. Req.	. F		
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4 Assy, Cable- Tricon Radial (External) 216480-XXX REF (3) 5 Assy, Cable- Tricon Bussed (External) 216483-XXX REF (4) 6 Assy, Trident Disc Calcomp Model T-80 REF (4) 7 Assy, Terminator REF (5) 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 (6)					216466-	1		(6)	
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6 Assy, Trident Disc Calcomp Model T-80 7 Assy, Terminator 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 6		4	Assy, Cable- Tricon Radial (Externa	1)	216480-XXX	REF			(3)
7 Assy, Terminator REF P/N 12421-001 (5 8 9 10 Sliding Lock Post 2 pr Cannon #D53018 (6)		5	Assy, Cable- Tricon Bussed (Externa	1)	216483-XXX	REF		(4 (3
8 9 10 Sliding Lock Post 2 pr Cannon #D53018 6		6	Assy, Trident Disc Calcomp Model T	- 80		REF			
9 10 Sliding Lock Post 2 pr Cannon #D53018 6		7	Assy, Terminator			REF	P/N 124	21-001	(5)
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ALTO/TRIDENT DISK SYSTEM CONFIGURATOR







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ASSY, P.W.

TRIDENT DISC INTERFACE

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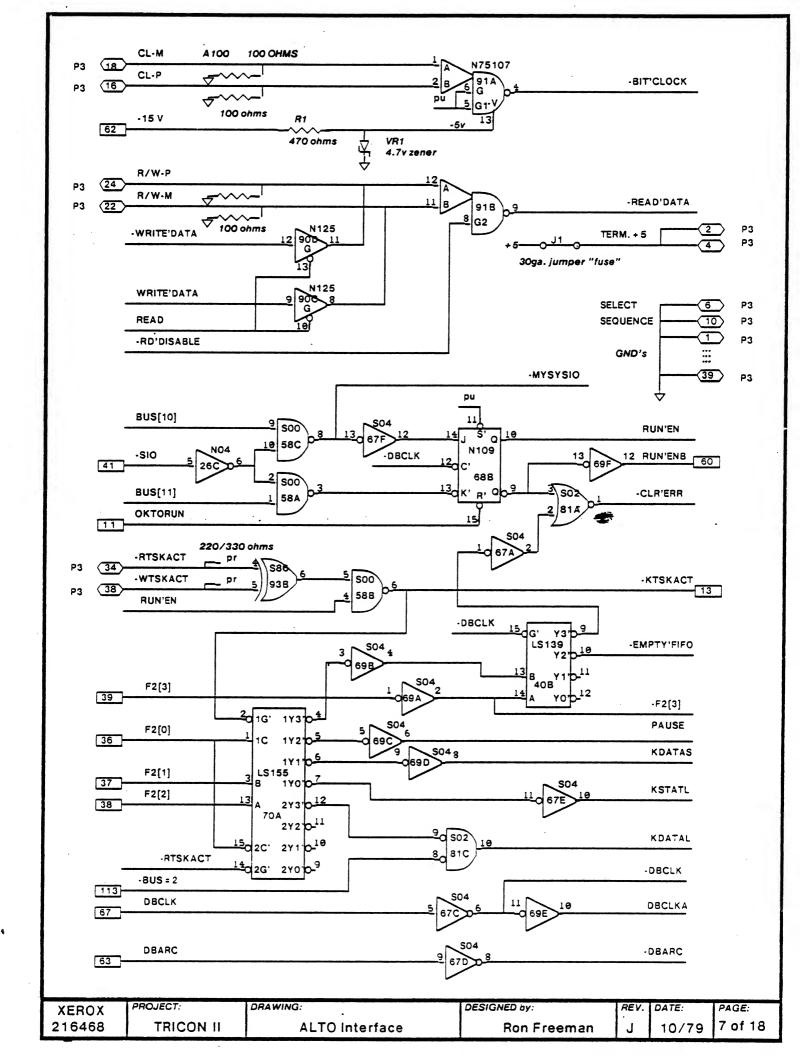


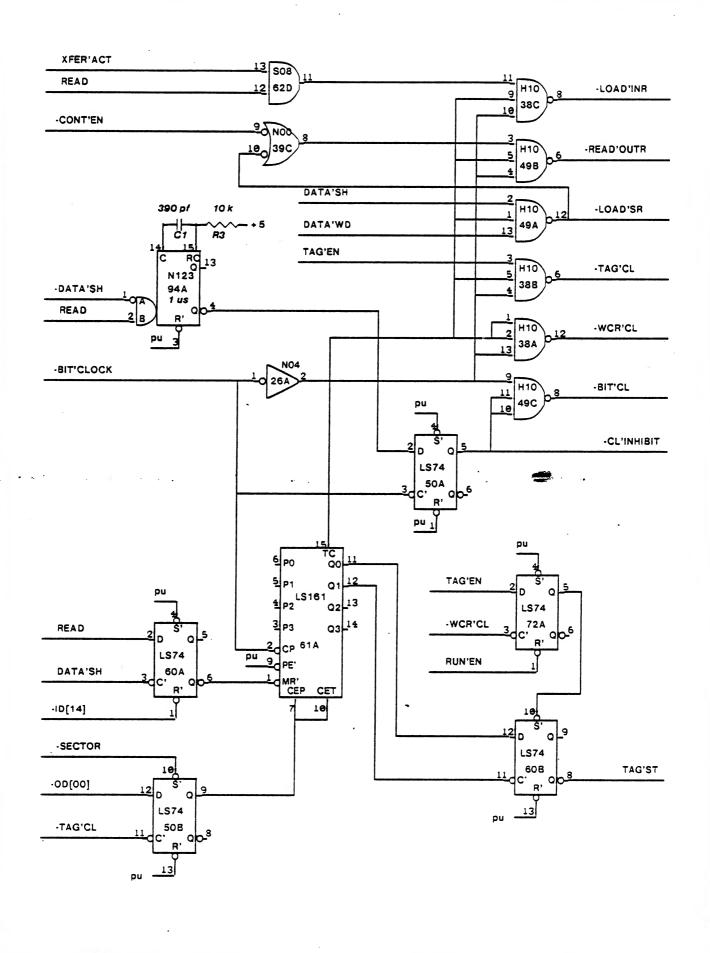
Drawing No. Rev. ML **Material List** 216468 J Drawing Title These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd. issued in strict confidence and shall not, without the ASSEMBLY, PRINTED WIRINGprior written permission of Xerox Corporation or Rank Xerox, Ltd., be reproduced, copied or used for any purpose whatsoever, except the manufacture of articles for Xerox Corporation or Rank Xerox, Ltd. TRIDENT DISC INTERFACE Date 2/21/77 5 Of Item No. Drawing Title Drawing No. No. Req. Remarks 1 Board, P. W. Trident Disc Interface 216469 1 2 Microcircuit, LS00 1 A58-Σ 3 7400 4 A39,73,79,87 4 74S02 1 5 74500 2 168969 A20,58 6 7404 2 A1,26 7 **74S04** 2 A67,69 8 74S08 1 A62 9 74H10 A38,49 10 7427 1 A66 11 7432 A74 1 12 7438 4 A63,64,75,86 13 '74LS74 5. A 60,72,77,80 14 74586 168970 2 A84,93 15 74109 3 A65,68,78 16 74123 1 A94 17 74125 1 A90 18 74LS139 A40 1 19 74LS155 182521 A70 1 20 74LS161 182526 6 A13, 14, 27, 37, 59, 61 21 74163 4 A29, 30, 31, 32 22 74166 2 A41.42 23 24 A16, 21, 23, 44, 25, 45, 46 52, 53, 88 25 74LS174 10 26 6 74LS175 A17,18,19,51,83,92 27 4 A15,47,82,85 74S157 28 1 A55 74279 82S126 29 2 A28,48 30 S82S23 1 A54 31 N8160 1 A43 Microcircuit, N75107 32 A91 1 33 Microcircuit.

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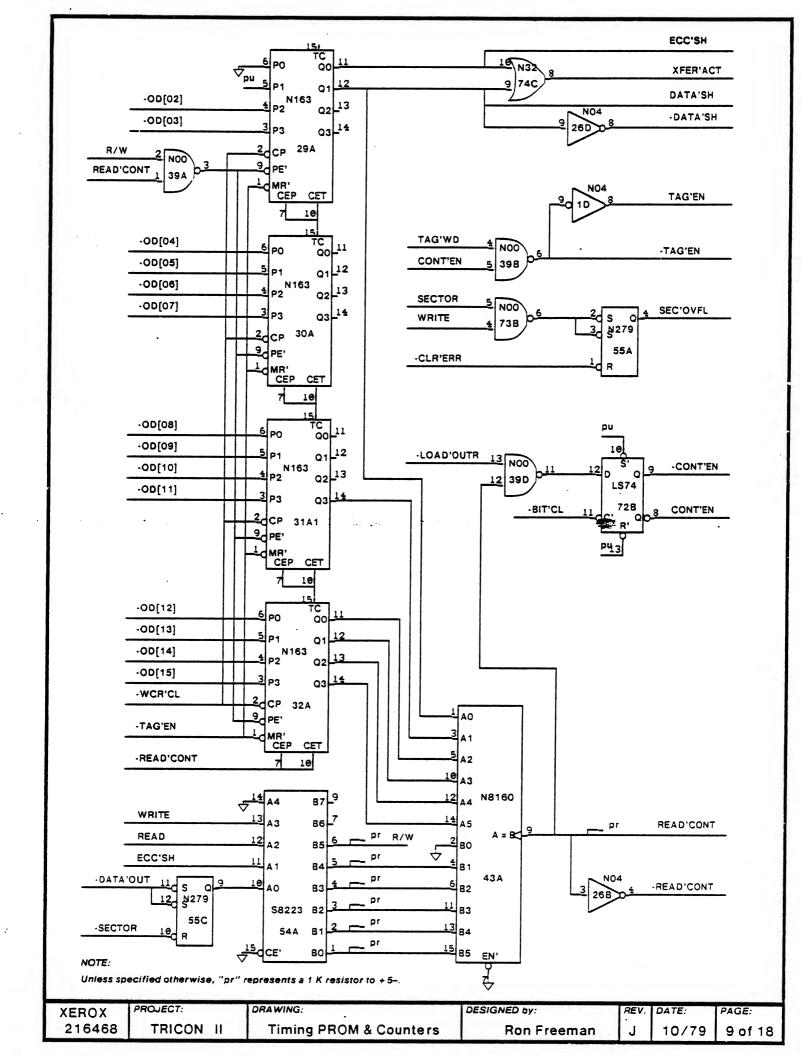


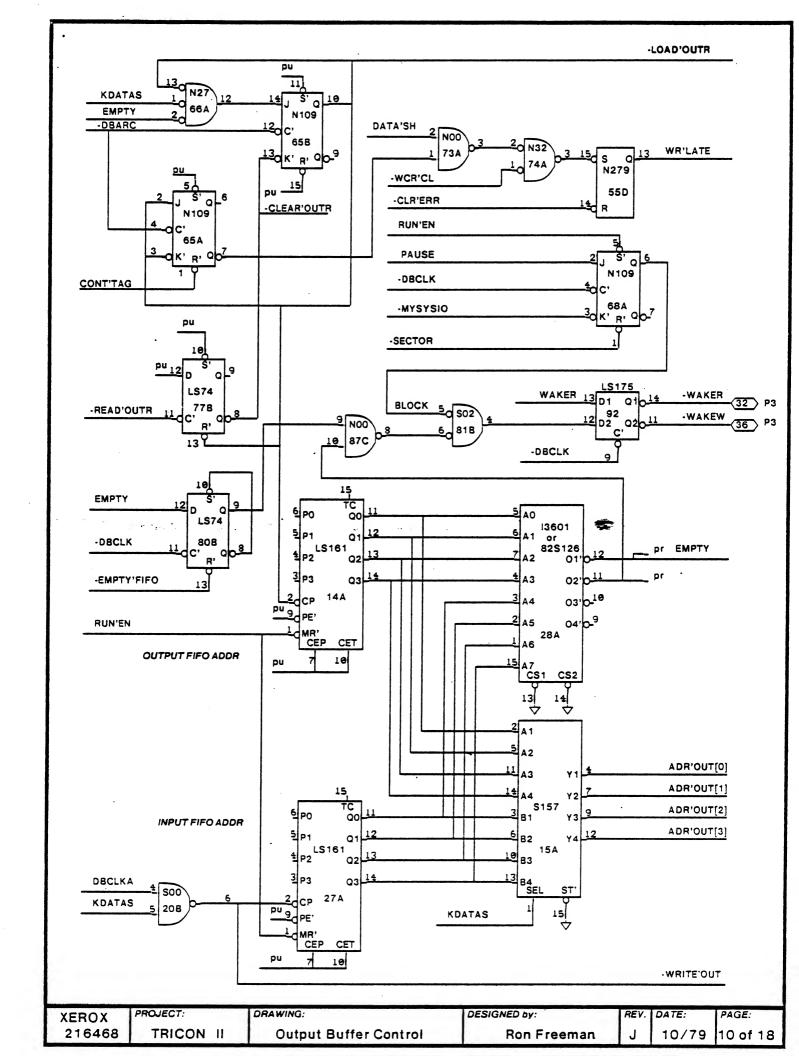
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ing No. 21 6468			woder No.	Date 2	/21/77	Shee	of of
Drawing No. 21646	Item No.	Drawing Title	Drawing No.	No. Req		Remarks	24 25
Drav	34	Microcircuit, I3101A		9	130	4,5,6,33,	
11	35	Microcircuit, 74LS164		5	 	7,71,76,8	3
Σ	36	Microcircuit, 74838		4	A7,9,	10,11	
	37	Resistor, Film, 150 £ ±5%, 1/4W	116447-151	1	R4		
	38	Resistor, Film, 470 \(\alpha\) ±5%, 1/4W	116447 <u>-</u> 471	1	R1		
	39	Resistor, Film, 20K ±5%, 1/4W	116447-203	1	R2		
	40	Resistor, Film, 10K ±5%, 1/4W	116447-103	1	R3		
	41	Resistor, Network, 1K ±2.5%, .125W	188600-007	9	A105	Thru Al13	
	42	Resistor, Network, 100a ±2.5%, .16W	188600-006	1	A100		
	43	Resistor, Network, 220 a ±2.5%, .16W	188600-003	2	A102,	A104	
	44	Resistor, Network, 330a ±2.5%, .16W		2	A103,	CTS (750-81-	R330)
	45			***************************************			
	46	Capacitor, Tant. 221F ±20%, 15V	187720-005	1	C.		
	47	Capacitor, Ceramic, .01µF, 50V	188483-001			ru 16,18	Thru 57
	48	Capacitor, Mica, 390 pF, ±5%, 100V	191175-032	1	C1		
	49	Capacitor, 0 pF		REF	C2		
	50	Capacitor, Mica, 330 pF, ±5%, 100V	191175-031	1	C17		
	51		272273 032	-	J		
	52	Diode, Zener, 400 MW, 4.7 V, ±10% IN7	50	1	VR1		
	53	220,			VICE		
	54	Rivet, Blind - Pull Thru	156111-005	2			
	55	Extractor, Module	216250	2			
ľ	56	Stiffener	216242	1			
Ī	57	Socket, Microcircuit		38	Augat	#514 - AG1)D
Ī	58	Socket, Microcircuit				#516 - AG1	
Ī	59	Wire, Solid, Wirewrap 30 AWG	146333	A/R			
Ì	60	Microcicuit, 74S158				, 22, 24	
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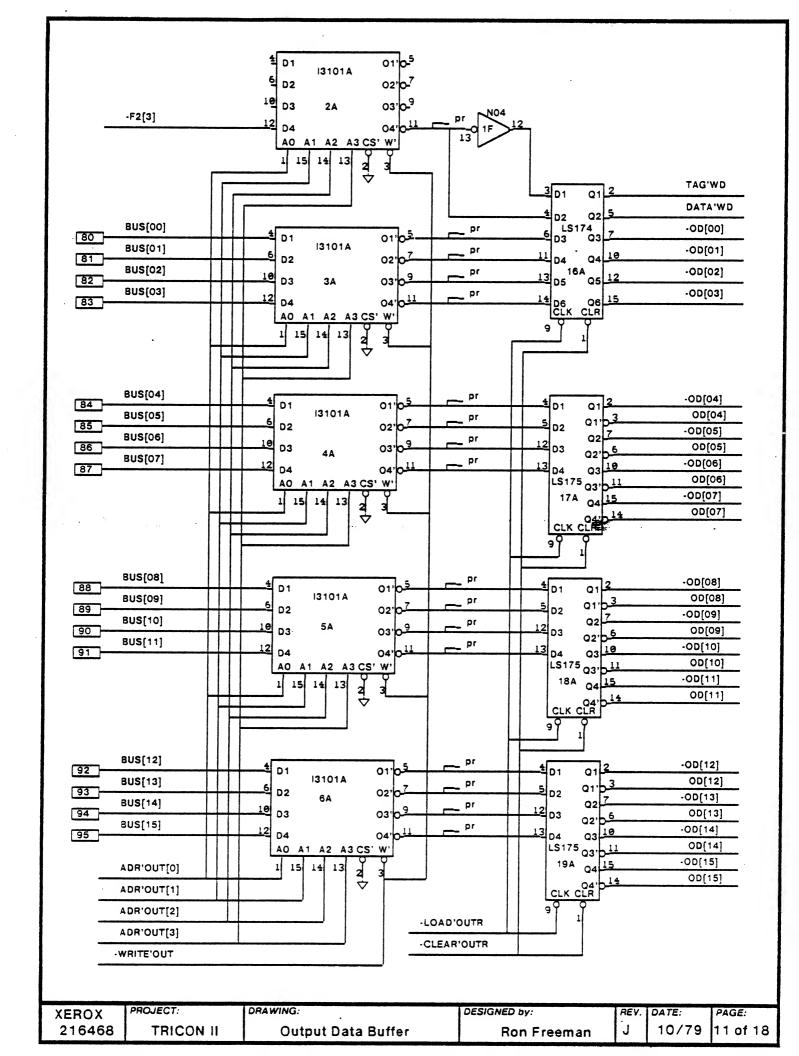


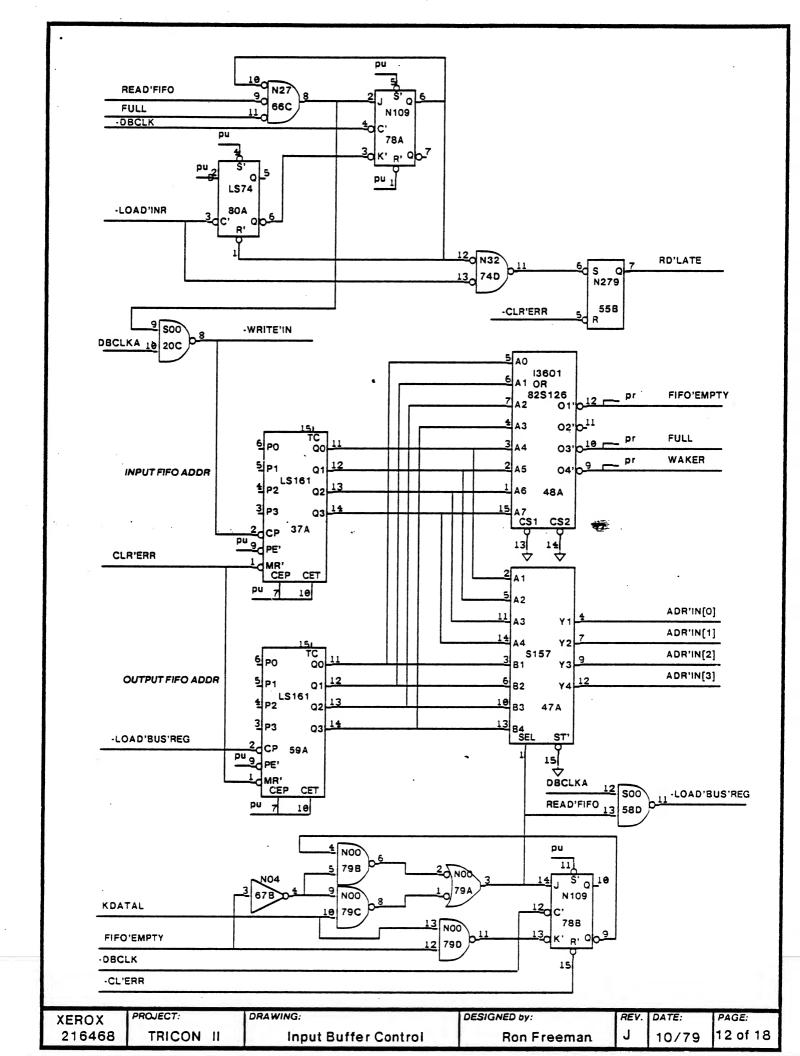


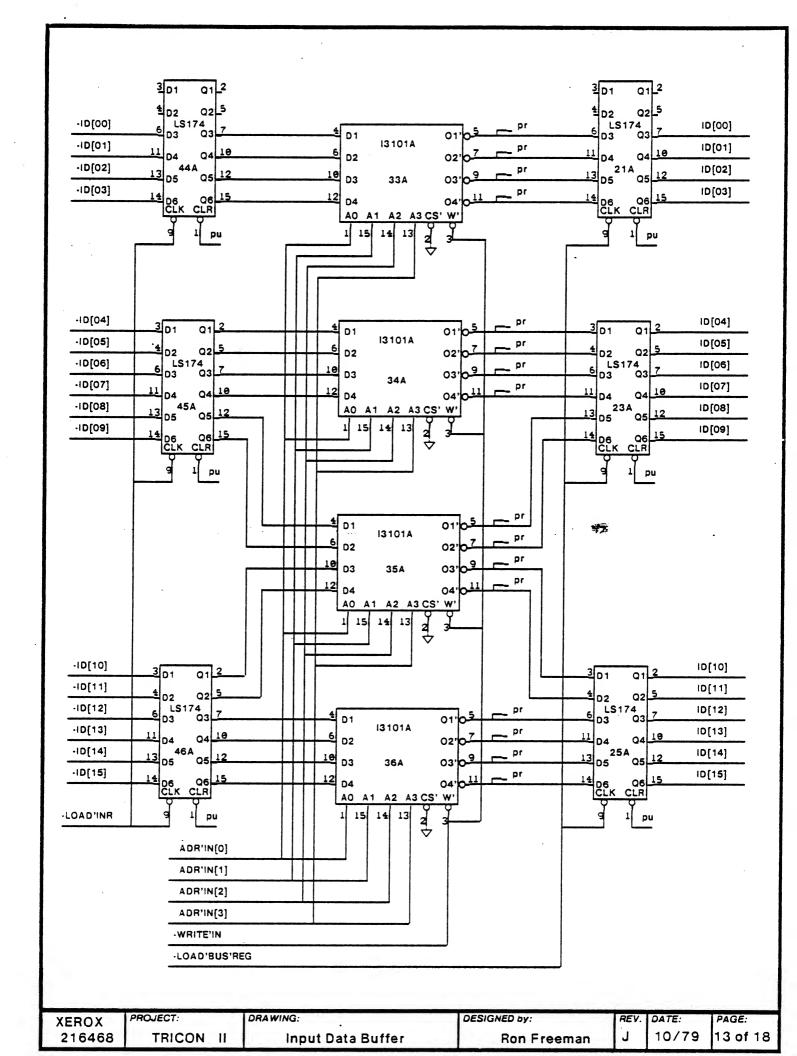
XEROX PROJECT: DRAWING: DESIGNED by: REV. DATE: PAGE: 216468 TRICON II Word & TAG Timing Ron Freeman J 10/79 8 of 18

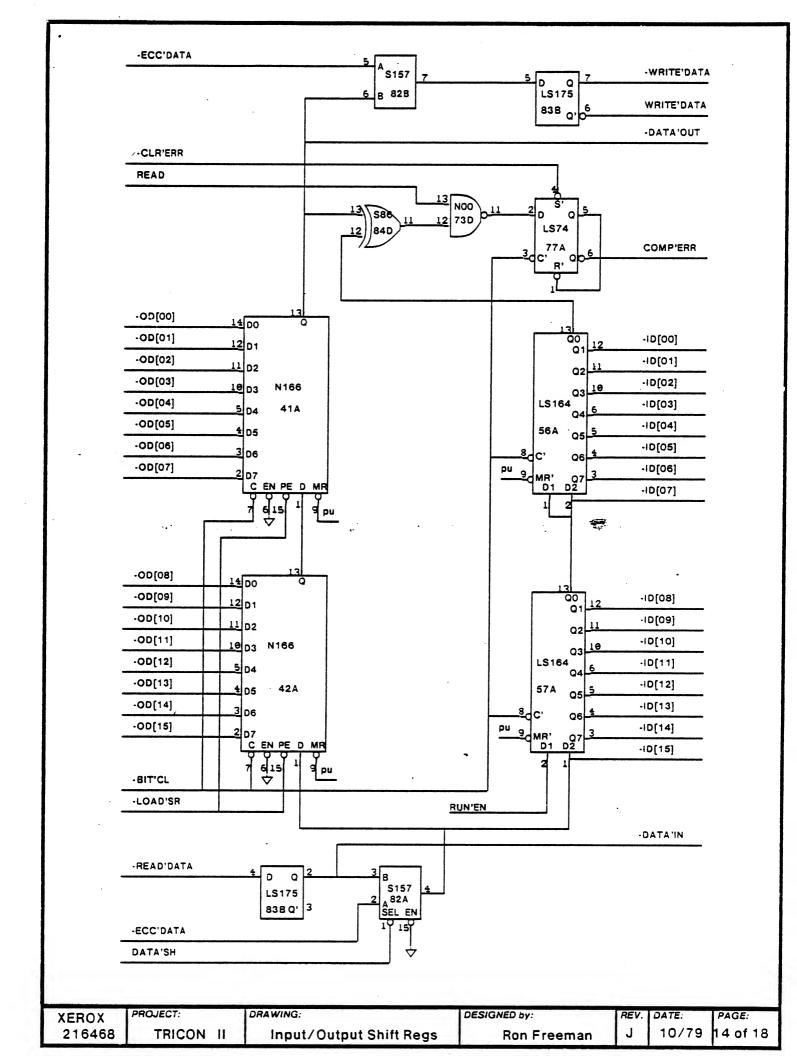


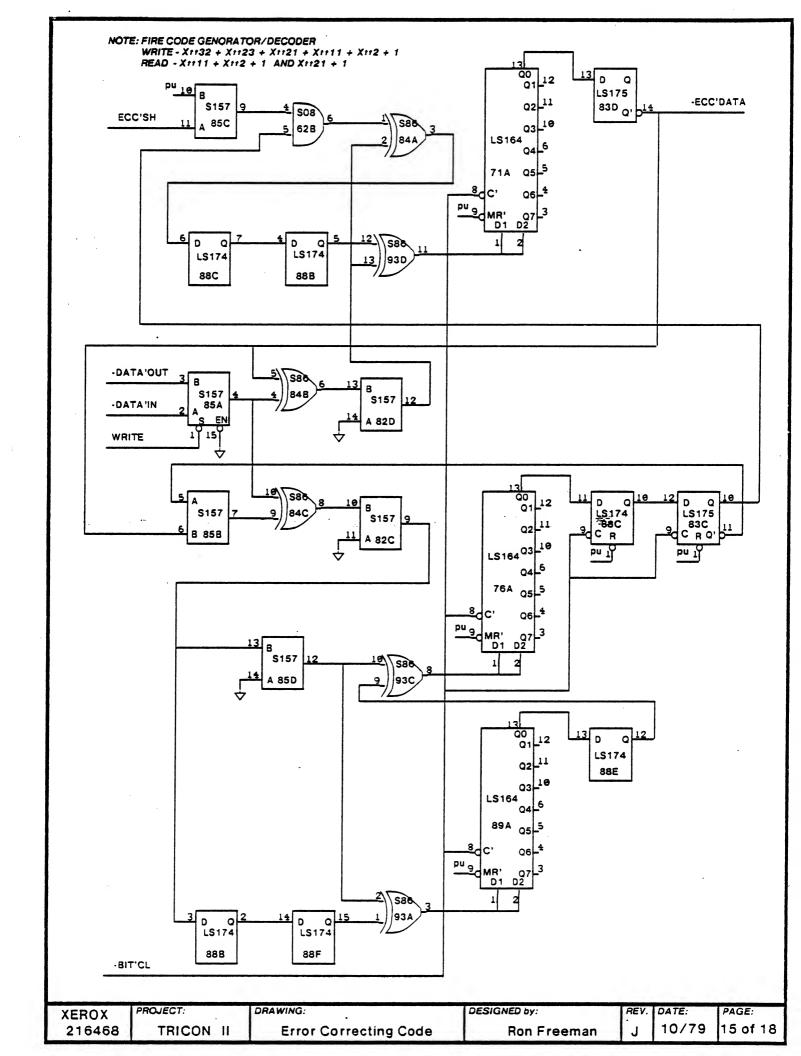


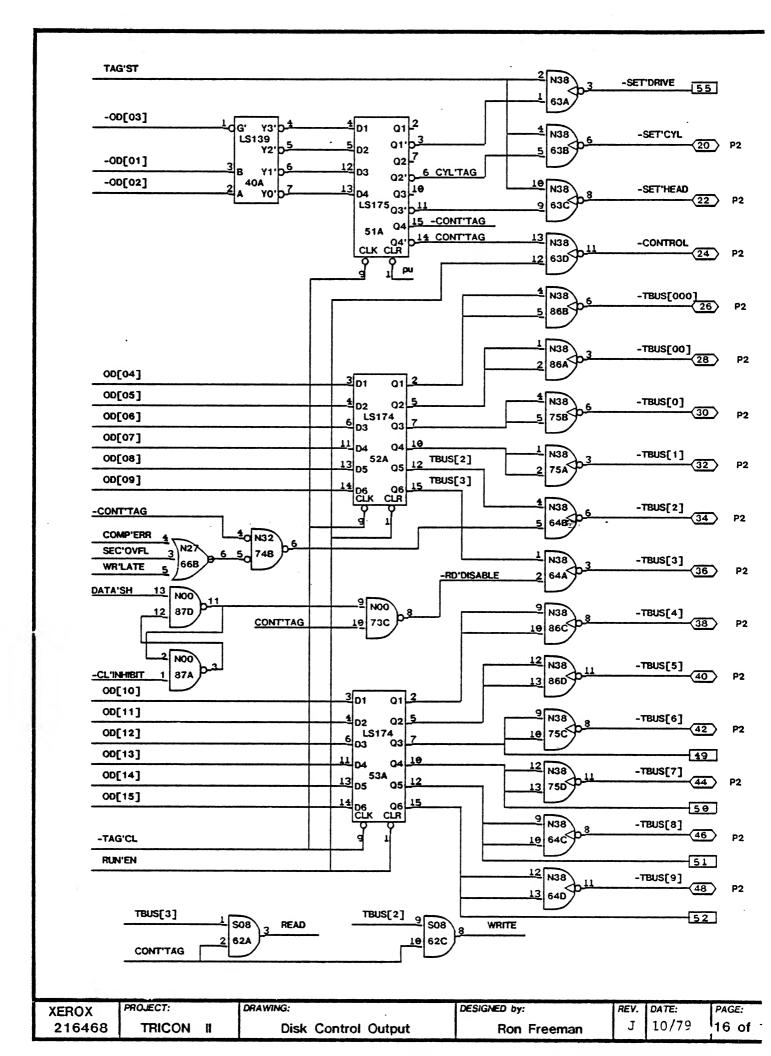


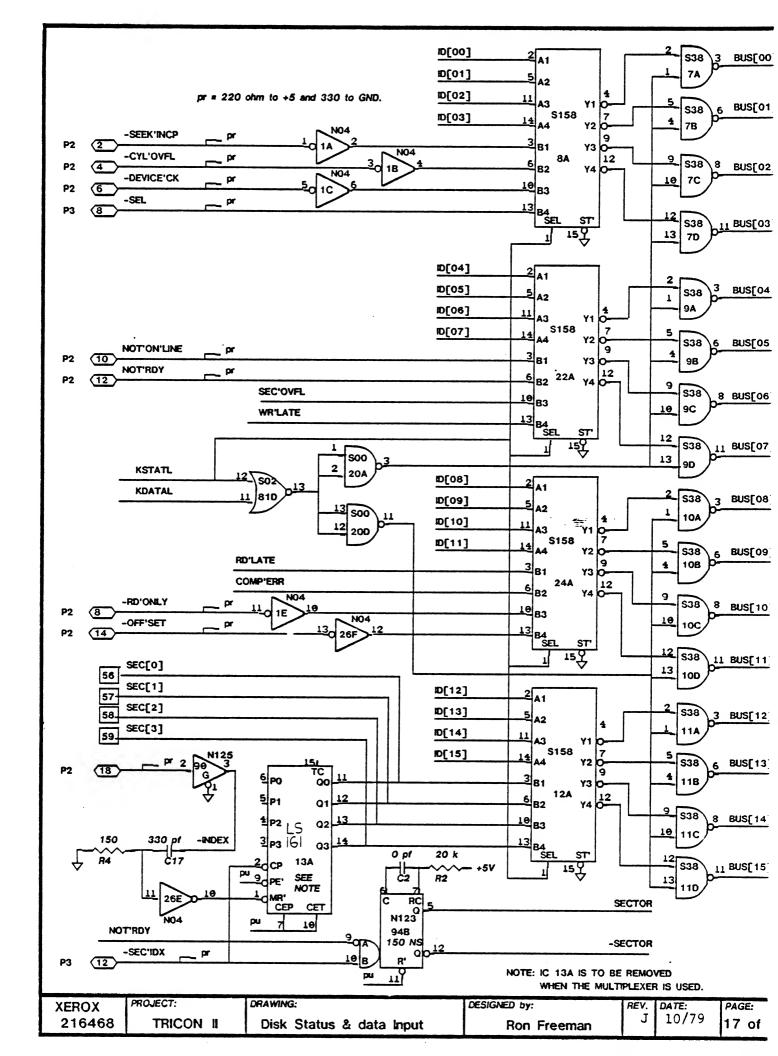


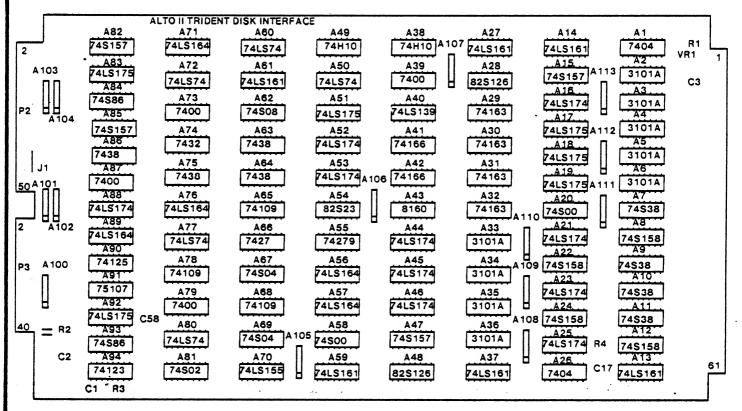












ALTOII BACKPLANE

NOTE: IC A13 is to be removed when the multiplexer option is installed.

NOTE: Part of the cable that connects to P3 goes to the bulkhead connector and part goes to the Control module.

NOTE: Following circuits are unused.

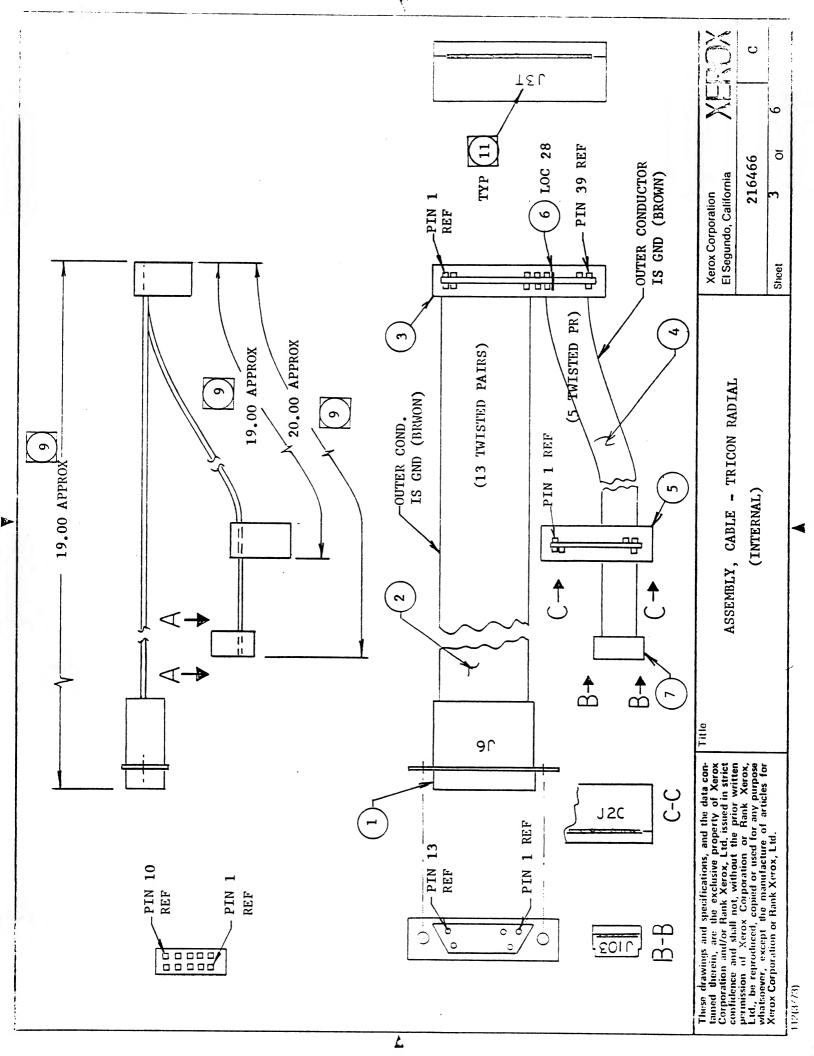
NOTE: A 100 = 100 ohms A 101,A 103 = 330 ohms A 102,A 104 = 220 ohms A 105 - A 113 = 1k ohms

> R1 = 470 ohms R2 = 20k ohms R3 = 10k ohms R4 = 150 ohms

C1 = 390 pf C2 = not used C3 = 20 uf 20 v C17 = 330 pf

VR1 = 1N750 J1 = 30 ga. JUMPER WIRE

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216468	TRICON II	ASSEMBLY	Ron Freeman	J	10/79	18 of 18



Wir No.	Term	From	To	Term	J Type	Notes	Signal	1 1 1
		J3T - 1	J6 - 13		2	BRN	GND	
2		2	25			BLK	TERM+5	
3		3	12			RED	GND	
4		7	24			BLK	TERM+5	
5		. 2	11			ORN	GND	
9		9	23			ВЦК	SEQUENCE	
7	,	7	10			YEL	GND	
8		8	22			BLK	SELECTED	1
6		6	6			GRN	GND	
10		10	21	·		ВЬК	SELECT	
11		11	80			вги	GND	
12		12	20			ВЬК	SEC' IDX	
13		13	7	÷		PURP	GND	
14	THE RESERVE THE PROPERTY OF TH	14				(O) BLK	N.C.	
15	Andrew Control of the	15	19			GRAY	GND	
. 16	The second secon	16	9			ВСК	CL- P	:
17		17	18			WIIT	GND	
18		18	5			ВЦК	CL-M	
19	**************************************	19	17			T'AN	GND	
20		20	4			ВГК	GND	
21		21	16			RED	GND	A CONTRACTOR OF THE PARTY OF TH
22		22	3			ВГК	R/W-M	
23		23	15			ORN	GND	
24		24	2			BLK	R/W-P	
25		25	14			YEE	GND	
26		J3T - 26	J6 - 1		2	BLK	GND	
These drawings are tained therein, an Corporation and/o	id specification the exclusive Rank Xerox	These drawings and specifications, and the data contained therein, are the exclusive proporty of Xerox Corporation and/or Rank Xerox, Ltd. issued in strict confidence and shall not, without the prior written			Title ALTO II ASSE) II ASSEMBLY, CABLE-	Xerox Corporation El Segundo, California	NEW Y
permission of Xe Ltd., be reproduce shotsoever, excep	ed, copied or t the manufa	on or Rank Xerox, used for any purpose ecture of articles for	Profix Each Designation With:	n With:		TRICON RADIAL	21646	O
ionino di con incidenti	O House Acre	, L'				(INTERNAL)	Sheet 5 or	v

			:																								XIIIX	53	
Signal	GND	GND	GND	GND	WAKER	WAKER	GND	GND	RTSKACT	RTSKACT	GND	GND	WAKEW	WAKEW	GND	GND	WI'SKACT	WTSKACT	GND	GND							Xerox Corporation El Segundo, California	216466	
Notes	11.13	ык	CRN	GRN	ык	BLK	YEL	YEL	ВЬК	ВГК	ORN	ORN	BLK	BLK	RFID	RED	BLK	BLK	BROWN	BROWN							ASSEPTIN CABLE	TRICON FADIAL (TERERNAL)	
λΙ	7												1							4							Title	; <u>-</u>	¥
Term																								1.5			able	abbreviated. n With:	
То	J2C-17	J103-1	J2C-18	.1103-2	J2C-19	J103-3	J2C-20	J103-4	J2C-21	J103-5	J2C-22	J103-6	J22-23	J103-7	J2C-24	J103-8	J2C-25	J103-9	J2C-26	J103-10							1. Ref Item No's in Applicable Material List.	 Ref Designations Are Abbreviated. Prefix Each Designation With: 	
From	J3T-30	J2C-17	J3T-31	J2C-18	J3T-32	J2C-19	J3T-33	J2C-20	J3T-34	J2C-21	J3T-35	J2C-22	J3T-36	J2C-23	J3T-37	J2C-24	J3't'-38	J2C-25	J3:r-39	J2C-26							ons, and the data convive property of Xerox x, Ltd. issued in strict	ronfidence and shall not, without the prior written permeason of Serox Corporation or Bank Xerox, Ltd., be reproduced, copied or used for any purpose whatevers, except the manufacture of articles for Notes Corporation or Bank X., ox., 144	
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- MAY BE PURCHASED FROM CANNON ELECTRIC, SANTA ANA, CALIFORNIA; VENDOR PART NUMBER.
- IWISTED PAIR CABLE (ITEM 2) MAY BE PURCHASED FROM ALPHA WIRE , TORRANCE, CA, P/N 5231,

(3)

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(

- TERMINATOR ASSEMBLY (ITEM 3) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PRODUCTS INC, ANAHEIM CALIFORNIA, PART NUMBER 12433 - 001.
- IWINAX CABLE (ITEM 6) MAY BE PURCHASED FROM BELDEN CORP, RICHMOND, INDIANA P/N 9272. (\sim)
- THE FIRST TWO DIGITS REPRESENT THE NOMINAL LENGTH IN TENTHS OF FEET WITH THE THIRD DIGIT CABLE LENGTH "L" WILL BE REPRESENTED BY A THREE DIGIT NUMBER PREFIXED BY DRAWING NO. REPRESENTING A TIMES TEN MULTIPLIER,

-101 MEANS 1.0 FT

-102 MEANS 10.0 FT

-202 MEANS 20.0 FT

-103 MEANS 100.0 FT

(MAX IMUM)

TOLERANCES ON CABLE LENGTHS TO BE AS FOLLOWS:

TO 5.0 FT ----±5%,

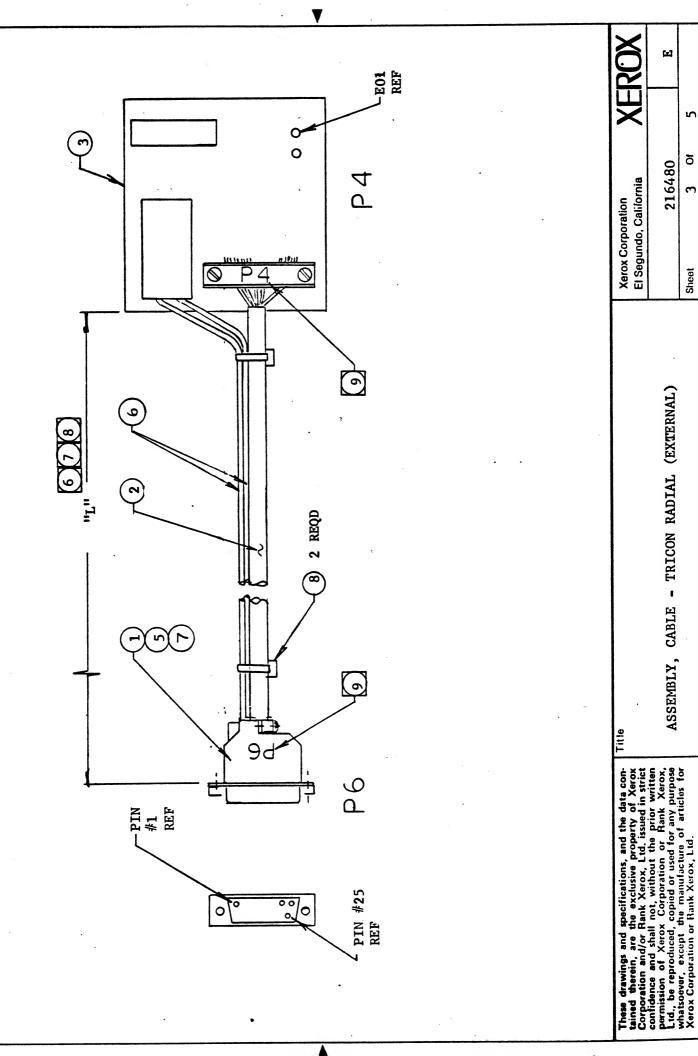
OVER 5.0 FT TO 20.0 FT----±2.0 IN.,

OVER 20.0 FT----+6.0 IN.

- SHALL NOT EXCEED 100 FEET. MAXIMUM CABLE LENGTH OF ANY RADIAL CABLE
- MARK CHARACTERS .12 HIGH, COLOR: BLACK PER XEROX SPEC 101624. 6
- RETAINER, SLIDING LOCK (ITEM 5) MAY BE PURCHASED FROM CANNON ELECTRIC, SANTA ANA, CALIFORNIA P/N DB51221-1 (01)

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permission of Xerox Corporation or Rank Xerox, Ltd., be reproduced, copied or used for any purpose	ASSEMBLY,	CABLE -	TRICON	RADIAL	ASSEMBLY, CABLE - TRICON RADIAL (EXTERNAL)	
Xerox Corporation or Rank Xerox, Ltd.						Sheet

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Sheet ASSEMBLY, CABLE - TRICON RADIAL (EXTERNAL)

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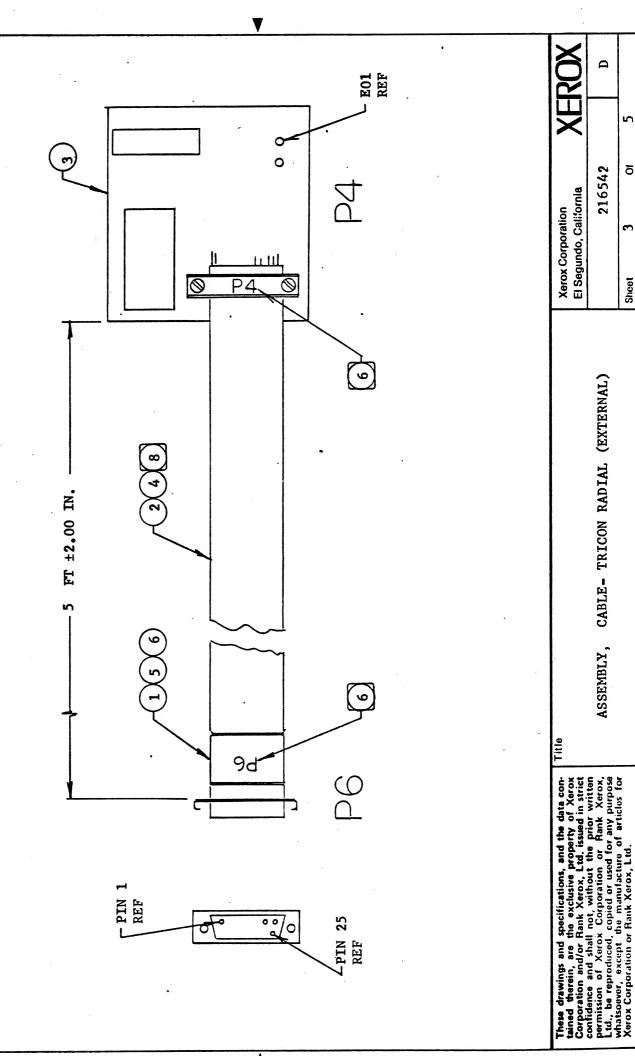
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	Term	From	То	Term	Wit. /pe	•	Notes	Signal	Chg. Let.
1	,	P6 - 25	103 - þd		2	(,	TW PR	TERM +5	
2		13	E05					GND	
3		24.	E02			_	TW PR	TERM +5	
7		12	E05					GND	
. 2		20	F04		ce		TW PR	SEC'IDX	
9		8	E03					GND	
7					7.42.9)			
8		10	E07				TW PR	GND	
6		22	E08					SELECTED	
10		11	E09				TW PR	GND	
11		23	E10					SEQUENCE	
. 12		6	E11		irsā t		TW PR	GND	
13		21	E12					SELECT	
14								•	
15		15	E15		-= 1		SHIELD	GND	
16		2	E14		, = 4		TWINAX 1	R/W-P	
17		3	E16				TWINAX 2	R/W-M	
18		16	- E15 -		7 7	-+1	TW PR	- GND -	
19		8	-E-16-			→ ↑		-R/W-M-	
20									
21									
22		18	E19				SHIELD	GND	
23		5	E20				TWINAX 1	CL-M	
24		9	E18		2 = 3		TWINAX 2	CL-P	
25		-61-	-E19-			4	TW PR-	— GN9 —	
26		P6 - 6-	P4 E20		2			-CL≖M	
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nfidence and shall not rmission of Xerox Cod., be reproduced, cop.	t, without a proporation and or used	the prior written or Rank Xerox,	2. Ref Designations Are Abbreviated. Prefix Each Designation With:	Abbreviated. on With:		TR		216480	ম
natsoever, except the prox Corporation or Ran	manufactur nk Xerox, L	re of articles for td.						Sheet 5 Of 5	



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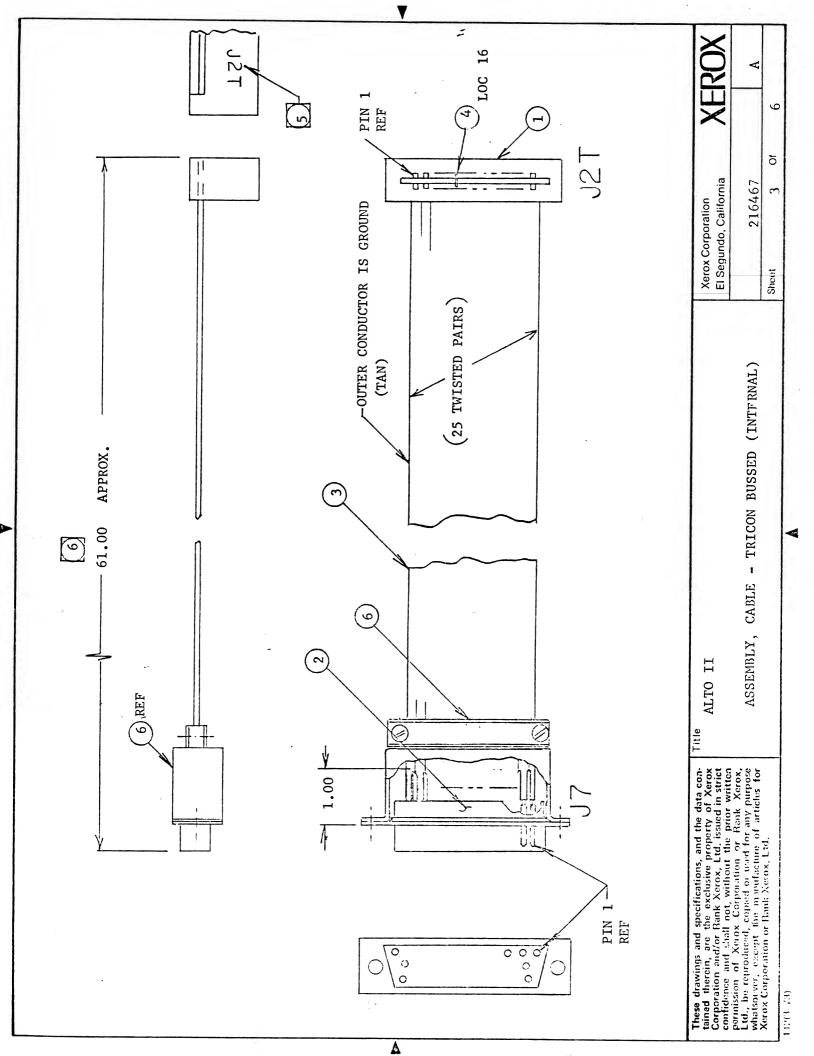
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Signal	TERM +5	GND	TERM +5	GND	SEC'IDX	GND		GND	SELECTED	GND	SEQUENCE	GND	SELECT		GND	R/W.P		GND	R/W-M			GND	CL-M		GND	CL. P	Xerox Corporation El Segundo, California	216542	Sheet 5 Of 5	
Notes	TW PR		TW PR		TW PR			TW PR		TW PR		TW PR			TW PR		•	TW PR				TW PR			TW PR		ASSEMBLY CARLE.			
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Term		ā	071								7	5													No		able	bbrevlated.		
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Wire No.	1	. 2	3	7	5	9	7	8	6	10	. 11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	These drawings and tained therein, are Corporation and/or	confidence and sha permission of Xerc Ltd., be reproduced whatsoever excent	Xerox Corporation	505(3773)



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Signal	GND	SEEK'INCP*	GND	CYL'OVFL*	GND	DEVICE 'CK*	GND	RD'ONLY*	GND	NOT'ON'LINE	GND	NOT'RDY	GND	OFF'SET*	GND	SPARE	GND	INDEX*	GND	SET'CYL*	GND	SET 'HEAD*	GND	CONTROL*	GND	TBUS(000)*	Xerox Corporation El Segundo, California	216467	Sheot 5 Of 6
) Notes																												ASSEMBLY, CABLE - TRICON BUSSED (INTERNAL)	
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Wire No.	1	2	3	7	5	9	7	8	6	10	11	12	13	14	- 15	16	17	1.8	19	20	21	22	23	24	25	26	These drawings and tained therein, are Comparation and/or	permission of Xerc Ltd., by reproduces whatsower, except	Xerox Corporation o

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Signal	GND	TBUS(00)*	GND	TBUS(0)*	GND	TBUS(1)*	GND	TBUS(2)*	GND	TBUS(3)*	GND	TBUS(4)*	GND	TBUS(5)*	GND	TBUS(6)*	GND	TBUS (7)*	GND	TBUS (8)*	GND	TBUS (9)*	GND	SPARE	Xerox Corporation El Segundo, California	216467	Sheet 6 0f 6
Notes																									ALTO II	ASSEMBLY, CABLE-	(TRINITAL CHOOL NO.
WIL	3																							- 6	Title	A	
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2	J7 - 41	25	8	07	77	2	39	23	9	38	22	5	37	21	4	36	20	. 3	35	19	2	34	18	J7 - 1	1. Ref Item No's in Applicable Material List.	 Het Designations Are Abbreviated. Prefix Each Designation With: 	
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	27	28	29	30	31	32	33	34	35	36	37	38	39	07	41	42	43	777	45	95	47	48	67	50	These drawings and tained therein, are t	permission of Xero; Ltd., be reproduced, whatsoever, exerpt	Xerox Corporation or

3

- FABRICATE PER XEROX SPEC 209154.
- BE PURCHASED FROM CANNON ELECTRIC COMPANY, SANTA ANA, CALIFORNIA, VENDOR PART NUMBER. MAY 2
- ASSEMBLY, TERMINATOR (ITEM 3) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PRODUCTS, INC ANAHEIM, CALIFORNIA PART NUMBER 12424-001. 3
- 27 TWISTED PAIRS (ITEM 2) MAY BE PURCHASED FROM ALPHA WIRE, TORRANCE, CA, P/N 5235. CABLE, 4
- SLEEVING, FLAT CABLE (ITEM 4) MAY BE PURCHASED FROM SPECTRA STRIP CORP, BUENA PARK CALIFORNIA -PART - NUMBER 300-786.

2

- CALBE LENGTH "L" WILL BE REPRESENTED BY A THREE DIGIT NUMBER PREFIXED BY DRAWING NO. 216483. THE FIRST TWO DIGITS REPRESENT THE NOMINAL LENGTH IN TENTHS OF FEET WITH THE THIRD DIGIT REPRESENTING A TIMES TEN MULTIPLIER, 9
- -101 MEANS 1.0 FT.
 - -102 MEANS 10 FT.
- -202 MEANS 20 FT.
- (MAX IMUM) -103 MEANS 100 FT.
- TOLERANCES ON CABLE LENGTHS TO BE AS FOLLOWS:

±2.0 IN. ±6.0 IN OVER 5.0 FT TO 20.0FT OVER 20.0 FT TO 5.0 FT

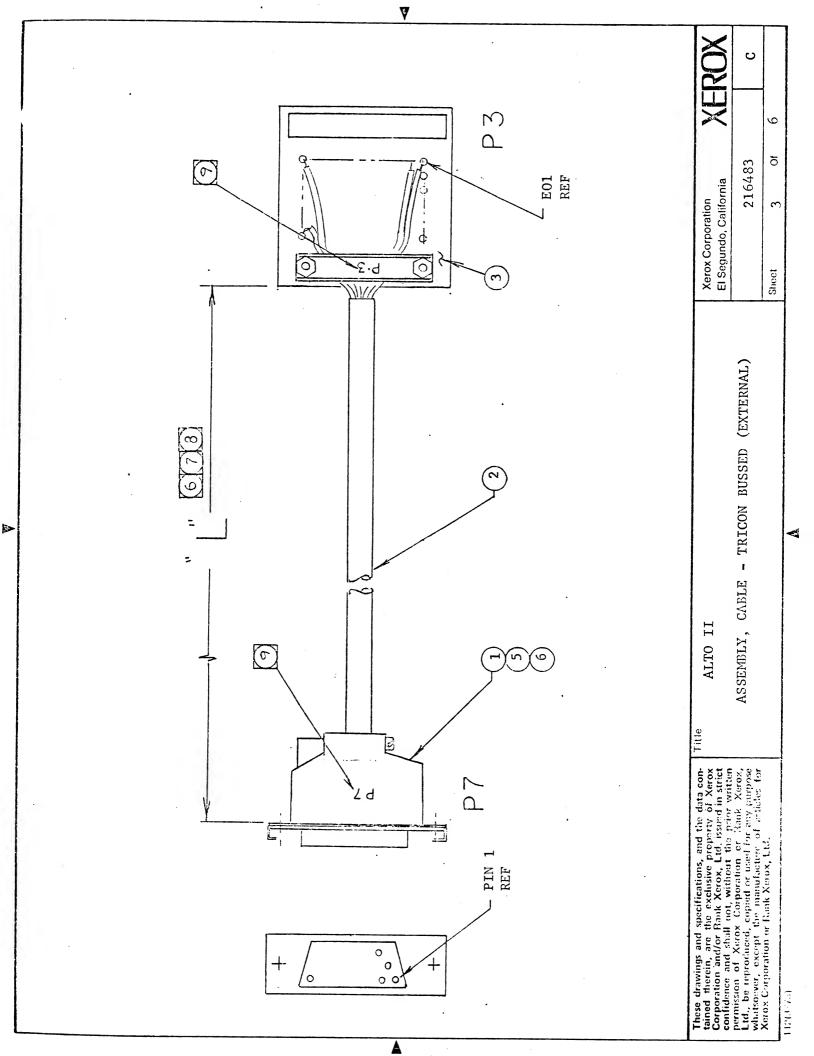
- MAXIMUM LENTH OF ALL BUSSED CABLES COMBINED FOR A MULTIPLE DRIVE INSTALLATION SHALL NOT EXCEED 100 FEET. 8
- PER XEROX SPEC 101624. MARK CHARACTERS .12 HIGH, COLOR: BLACK

6

ALL GND SIGNALS TO BE COMMON COLOR CODE (BLACK),

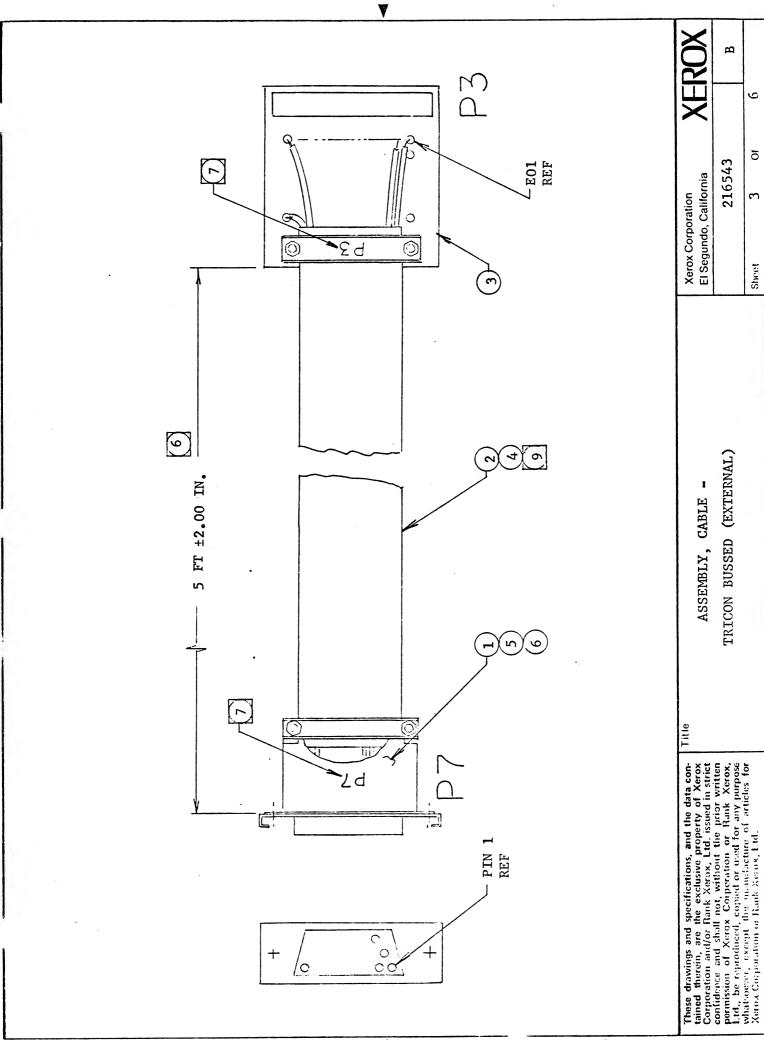
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Xerox Corporation El Segundo, California	216483
	SSEMBLY, CABLE - TRICON BUSSED (EXTERNAL)
	BUSSED
	TRICON
11	CABLE -
ALTO II	SEMBLY,



	Term	From	To Term	m Wi,		Notes	Signal	Chg. Let.
1		P7 - 50	P3 - E16G		7	TW PR (10)	GND	
2		17	E16			1	SEKINCP*	
3		49	E02G			TW PR	GND	
4		33	E02		_		CYLOVFL*	
5		1.5	E12G			TW PR	GND	
9		6.8	E12			1	DEVICECK*	
7		32	E10G			TW PR	GND	
8		15	E10			1	RDONLY*	
6		77	E14G			TW PR	GND	
10		31	E14				NOT ON LINE	
11		14	E08G			TW PR	GND	
12		76	E08			1	NOT RDY	
13		30	E04G			TW PR	GND	
14		13	E04				OFFSET*	
15		12	E06G			TW PR	GND	
16		. 57	E06			1	INDEX*	
17		23	E39G			TW PR	. GND	
18		11	E39			1	SETCYL*	
19		63	E40G			TW PR	GND	
20		27	E4.0			1	SETHEAD*	
21		10	E37G			. } TW PR	GND	
22		7.7	E37				CONTROL*	
.23		တ	• E20G			TW PR	GND	
24		6,0	Ē20				TBUS(0)*	
25		24	E22G			TW PR	GND	
26		P7 - 7	P3 - E22	1 3	2	$\begin{pmatrix} 10 \end{pmatrix}$	TBUS(1)*	
c drawings and spe d therein, are the oration and/or Ran during and shall m	ecification exclusion Nation	These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd. insued in street confudence and steel not wiftout the price of prices.	Ref Item No's in Applicable Material List. Performation Act Aut		Title AS	ALTO II ASSEMBLY, CABLE-	Xerox Corporation El Segundo, California	XEROX
Posters of Norck C be regroduced, co power, except the A Corporation or (A)	Cesporan appred or a manual.	test or Each Prox. test for any perpose actual of articles for	Prefix Lach Designation With:	;	TR	TRICON BUSSED (EXTERNAL)	216483	C

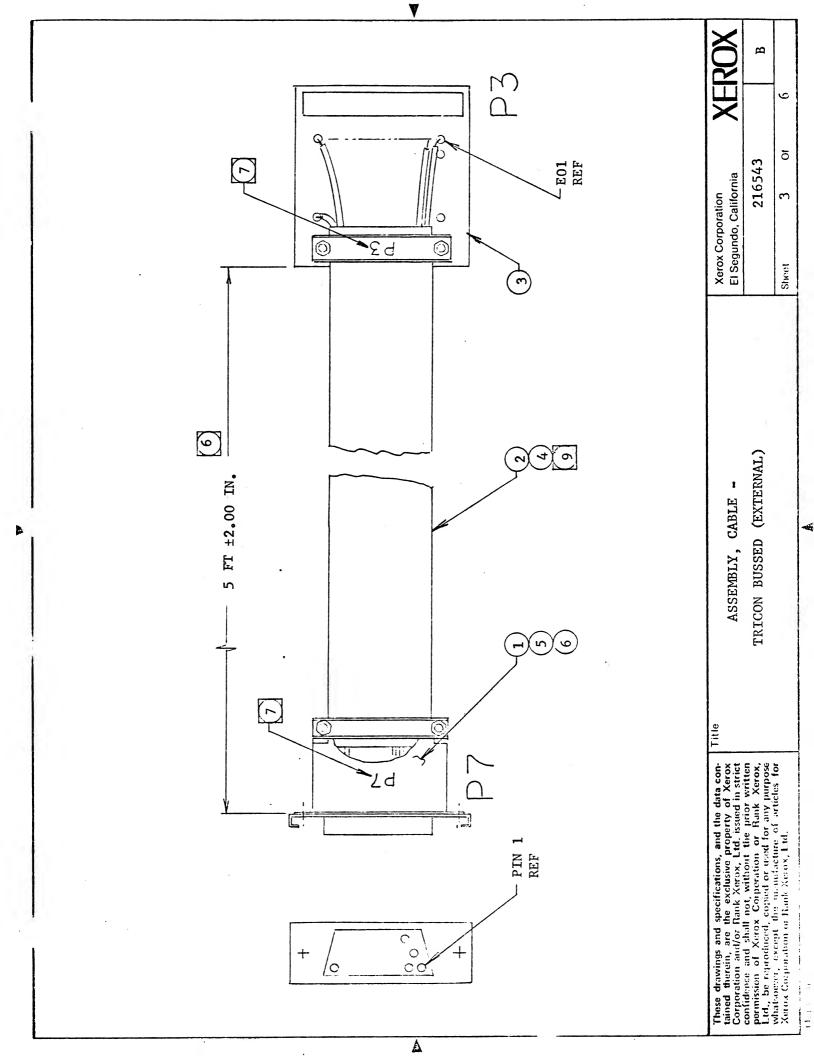
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Chg. Let.																						XEROX	၁	
Signal	GND	TBUS(2)*	GND	TBUS(3)*	GND	TBUS(4)*	GND	TBUS(5)*	GND	TBUS(6)*	GND	TBUS(7)*	GND	TBUS(8)*	GND	TBUS(9)*						Xerox Corporation El Segundo, California	216483	Sheet 6 Of 6
Notes	TW PR [10]		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR	(01)						ALTO II	ASSEMBLY, CABLE- TRICON BUSSED (EXTERNAL)	Provide addinates de la company
Wire	2															2						Title		
To Term	P3 - E24G	E24	E26G	E26	E28G	E28	E30G	E30	E32G	E32	E34G	E34	E36G	E36	E38G	P3 - E38						Ref Item No's in Applicable Material List. Actor. Actor.	z. rei Designations Me Abbreviatod. Prefix Each Designation With:	de selection de sector de sector de sector de sector de sector de sector de la company de la company de sector de se
From	P7 -39	23	9	38	22	5	37	21	7	36	20	3	35	19	2	P7 -34						These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd. greed in strict confidence and dial not without the	nout me that verten trused for any parpose facture of articles for	17)X, L. Isi.
Ę																						nd specificati re the exclus or Rank Xero	erox Corpora	o or mank Ac
Wire No.	27	28	29	30	31	32	33	34	35	36	37	38	. 39	70	41	42						These drawings a tained therein, a Corporation and/	permission of Xi Ltd., be reproduc whatsoever, every	one so bound

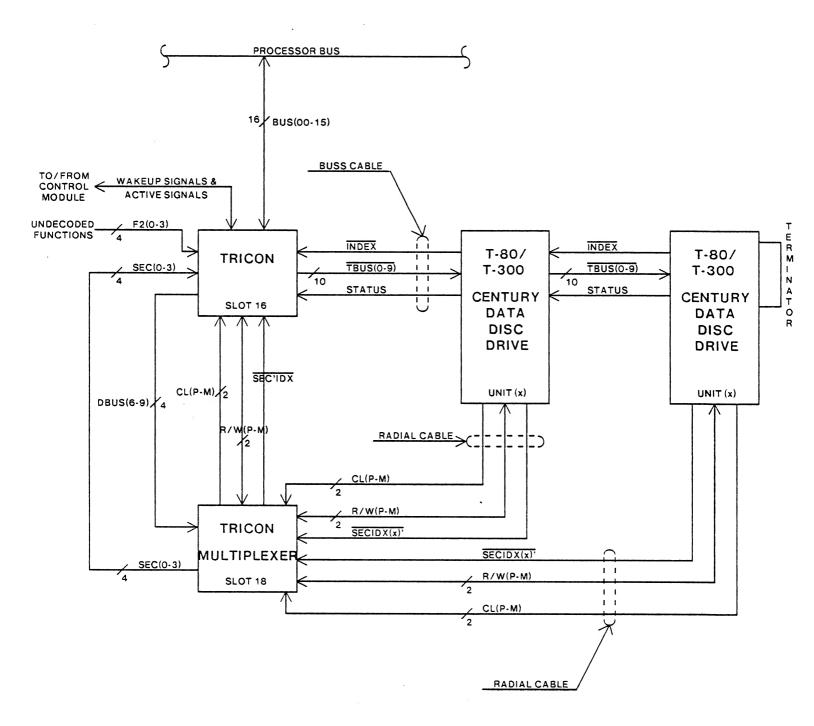


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Chg. Let.																											XEROX	В	9
Signal	GND	SEEKINCP*	GND	CYLOVFL*	GND	DEVICECK*	GND	RDONLY*	GND	NOT ON LINA	GND	NOT RDY	GND	OFFSET*	GND	INDEX∻	GND	$\mathtt{SETCYL} *$	GND	SETHEAD*	GND	CONTROL*	GND	TBUS(0)*	GND	TBUS(1)*	Xerox Corporation El Segundo, California	216543	Sheet 5 Of
	(8)		(8)		8		8		8		(8)		8		(8)		8		8		8		8		(8)			ERNAL)	
Notes	TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		TW PR		ASSEMBLY, CABLE		
Wire Type	2																									7	Title	TRIC	
Term																											cable .	Abbrevlated. on With:	
То	P3 - E16G	E16	E02G	E02	E12G	E12	E10G	E10	E14G	E14	E08G	E08	E04G	E04	. E06G	E06	E39G	E39	E40G	E40	92E3	E37	P) E	E20	E22 G	P3 - E22	Ref Item No's in Applicable Material List.	2. R-f Designations Are Abbrevlated. Prefix Each Designation With:	
From	P7 - 50	17	49	33	16	48	32	15	47	31	14	46	30	13	1.2	44	28	11	43	27	10	42	8	40	24	P7 - 7	These drawings and specifications, and the data contained therein, are the exclusive proporty of Xerox Coreos aton and/or Fank Xerox, Ltd. issued in strict	out the prior written ton or Bank Xerox, used for any purpose	ecture of articles for less, 11d.
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Wire No.	H	2	3	4	5	9	7	8	6	10	1.1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	These drawings at tained therein, an Co. co. etion and/c	confidence and signature of Xe	Me danger, exert

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NOTE: (x) = 0 THROUGH 7. 1 SIGNAL LINE PER CIRCUIT OR DISC DRIVE.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ITEMS 1,3,5,13 THRU 20 SUPPLIED AS LOOSE ITEMS, TO BE INSTALLED IN ALTO II PROCESSOR CHASSIS TO INTERFACE WITH CALIFORNIA COMPUTER PRODUCTS INC, ANAHEIM CALIFORNIA MODEL NO. T-80 DISC FILE UNIT. FOR CABLING INSTRUCTIONS SEE FIGURE 1, 2, & 3.
- TRIDENT DISC INTERFACE MODULE ASSY AND TRIDENT MULTIPLEXER MODULE ASSY ARE SHOWN INSTALLED IN MODULE LOCATIONS 18 AND 20 FOR REFERENCE ONLY. ANY 3 ADJOINING MODULE SLOTS FROM 15 THRU 20 MAY BE UTILIZED. TRIDENT MULTIPLEXER MODULE REQUIRES 2 SLOTS.
- REMOVE AND RETURN TO STOCK CONNECTOR PLATE P/N 216418 AND REPLACE WITH ITEM 5.
- ALL EXTERNAL CABLE ASSEMBLIES, ITEM 7, 8, & 9 SHOWN FOR REFERENCE ONLY ARE TO BE ORDERED SEPERATELY.
- ITEM 9, CABLE ASSY (DAISY CHAIN) MAY BE PURCHASED FROM CALIFORNIA COMPUTER PROD INC, ANAHEIM, CALIFORNIA P/N 17525-006 (6 FT LONG). OTHER LENGTHS AVAILABLE, DESIGNATED BY 3 DIGIT DASH NUMBER, IE -007 = 7 FT LONG, -008 = 8 FT LONG, ETC.
- 6 THE COMBINED LENGTH OF TRICON BUSSED CABLE TO BE MAXIMUM OF 100 FT.
- TERMINATOR MODULE, CALIFORNIA COMPUTER PROD INC, ANAHEIM, CALIF, P/N 12421-001, TO BE INSTALLED IN J2 OF THE LAST DISC FILE UNIT ON TRUNK LINE.
- 8. ALTO II BACKPLANE JUMPER WIRES MUST BE ADDED AS FOLLOWS:

	ENT DISC E MODULE (REF S	LOT 18)	(REF PIN 49 50 51 52	ENT MULTI SLOT 20	MODULE
JJ	-		 55		
56 —			 56		
57 —			57		
58 —			58		
59 —			 59		
60 —			 60		

PACKAGE 1 PAIR OF ITEM 22 PER EACH CABLE ASSY (ITEM 3, 13 THRU 20).

These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd. issued in strict confidence and shall not, without the prior written	ASSEMBLY, TRICON MUX	Xerox Corp El Segundo		1	XE	ROX
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Xerox Corporation or Rank Xerox, Ltd.		Sheet	2	Of	5	

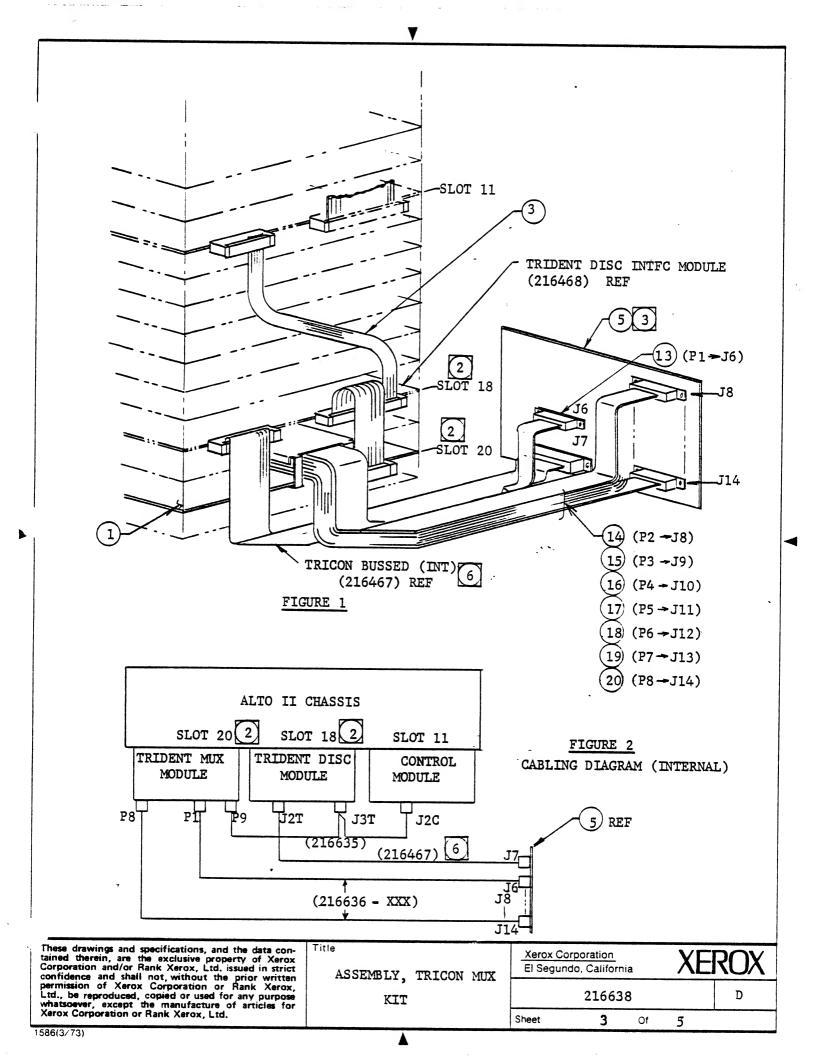
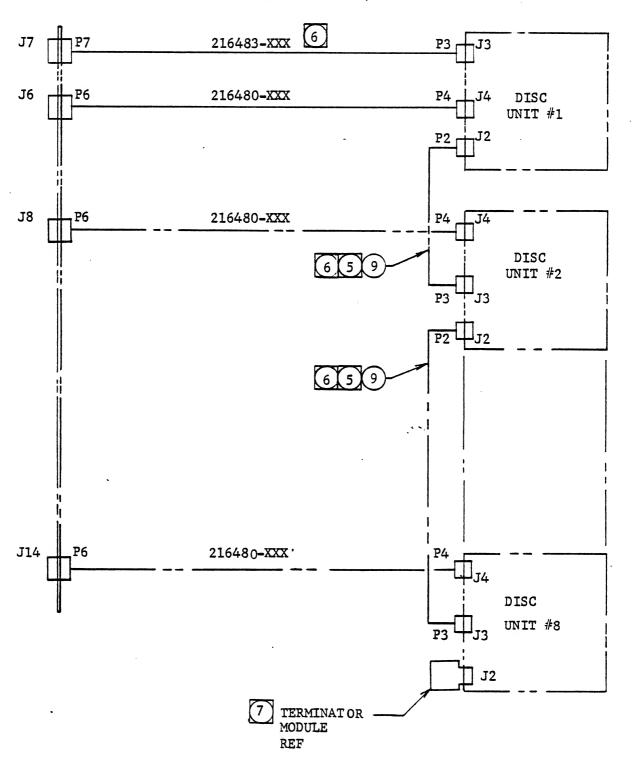


FIGURE 3
CABLING DIAGRAM (EXTERNAL)



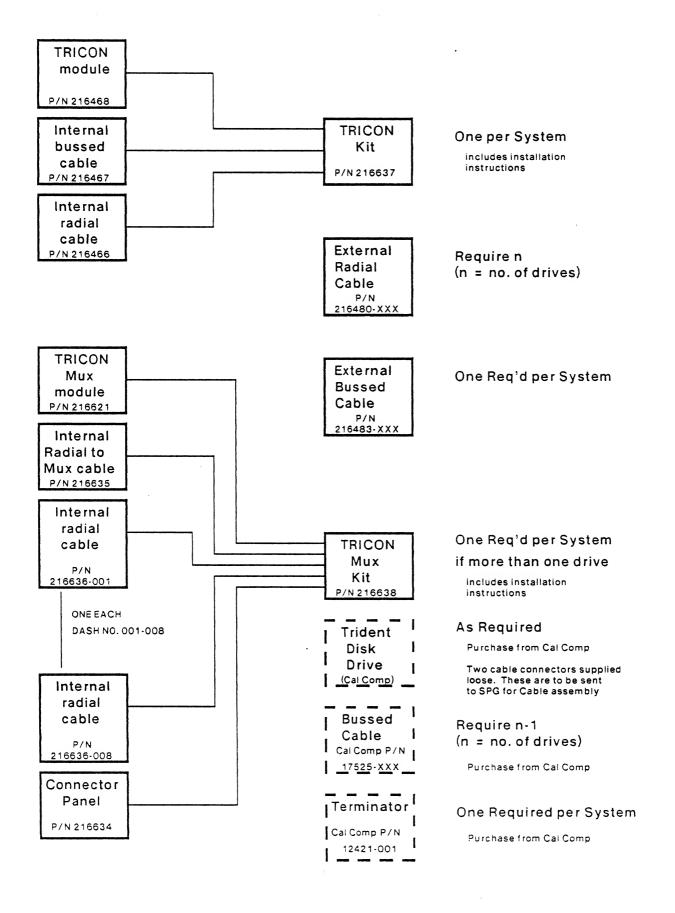
These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/or Rank Xerox, Ltd., issued in strict confidence and shall not, without the prior written	ASSY, TRICON MUX		prporation do, Californ	nia	XE	ROX
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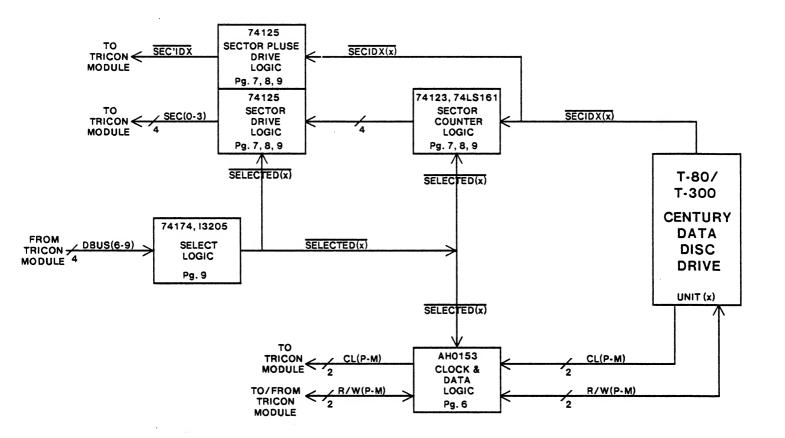


Mate	erial L	ist	7				ML	Drawing No 21663		Rev.
Rev.	Drawing	ASSEMBLY, TRICON MUX	Xerox, prior v be rep the ma	e the exc Ltd. iss vritten pe roduced, inufacture	s and speci- clusive prop sued in strice ermission of copied or u e of articles	perty of it confid f Xerox (sed for	Xerox lence a Corpor anv pu	Corporation and shall nation or Ra arbose what	on and/o ot, with nk Xero soever.	or Rank out the k, Ltd., except
o.		KIT	Model N		390401	Date 5	/20/7	77	Sheet	of 5
Drawing No. 21663	Item No.	Drawing Title		, 	ving No.	No. Req			narks	0, 3
Draw 2	1	Assy, PW - Trident Multiplexer		2166	521	1				(2
	2	Assy, Cable Trident Mux (Internal)		2166	36	8				
Σ	3	Assy, Cable - Tricon Radial To Mux (Int)	2166	35.	1				9
	4		Y							
L	5	Panel, Connector (Peripheral/Mux)		2166	 34	1				(3)
l	6	Assy, Tricon Kit		2166	37	REF		***************************************		
	7	Assy, Cable- Tricon Radial (Ext)		2164	80 - XXX	REF				(4
	8	Assy, Cable- Tricon Bussed (Ext)		2164	83-XXX	REF				6 4
	9	Assy, Cable- Bussed (Daisy Chain)				REF				5 4
	10	Assy, Trident Disc Calcomp Model	T-80			REF				
	11	Assy, Terminator				REF	P/	N 12421	-001	(7)
	12									
L	13	Assy, Cable - Trident Mux		2166	36-001	1	(P	1 TO J6)	(9
	14				002	1	1	2 TO J8		
Γ	15				. 003	1		3 TO J9		
ſ	16				004	1		4 TO J10		
ſ	17				005	1		5 TO J1:		
Γ	18				006	1		6 TO J12		
Γ	19				007	1		7 TO J1:		
Γ	20	Assy, Cable - Trident Mux		2166	36-008	1	1	8 TO J14		₹9
Γ	21						\ <u></u>		-/	
-	22	Sliding Lock Post			·	1 pr	Ca	nnon #D	53018	(9
}										
-										
-										
٦										
	106B(3/7	3)								

ALTO/TRIDENT DISK SYSTEM CONFIGURATOR



TRICON MULTIPLEXER MODULE (ONE OF EIGHT CIRCUITS)



NOTE: (x) = 0 THROUGH 7, 1 SIGNAL LINE PER CIRCUIT OR DISC DRIVE.

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. ASSEMBLE PER MODULE ASSEMBLY SPEC, DWG NO. 216207.
- 2 MAY BE PURCHASED FROM 3M COMPANY, ST PAUL, MINN. VENDOR PART NUMBER.
- MAY BE PURCHASED FROM PENN ENGINEERING & MANUFACTURING CORP, DOYLESTOWN, PENNA. VENDOR PART NUMBER.
- MAY BE PURCHASED FROM AUGAT, INC, ATTLEBORO, MASSACHUSETTS. VENDOR PART NUMBER.
- 5 ITEM 29 (CABLE BRACKET) SUPPLIED AS LOOSE ITEM, INSTALL AT NEXT HIGHER ASSEMBLY.
- 6 THE FOLLOWING MODIFICATIONS ARE REQUIRED USING "A" REVISION PRINTED WIRING BOARD:

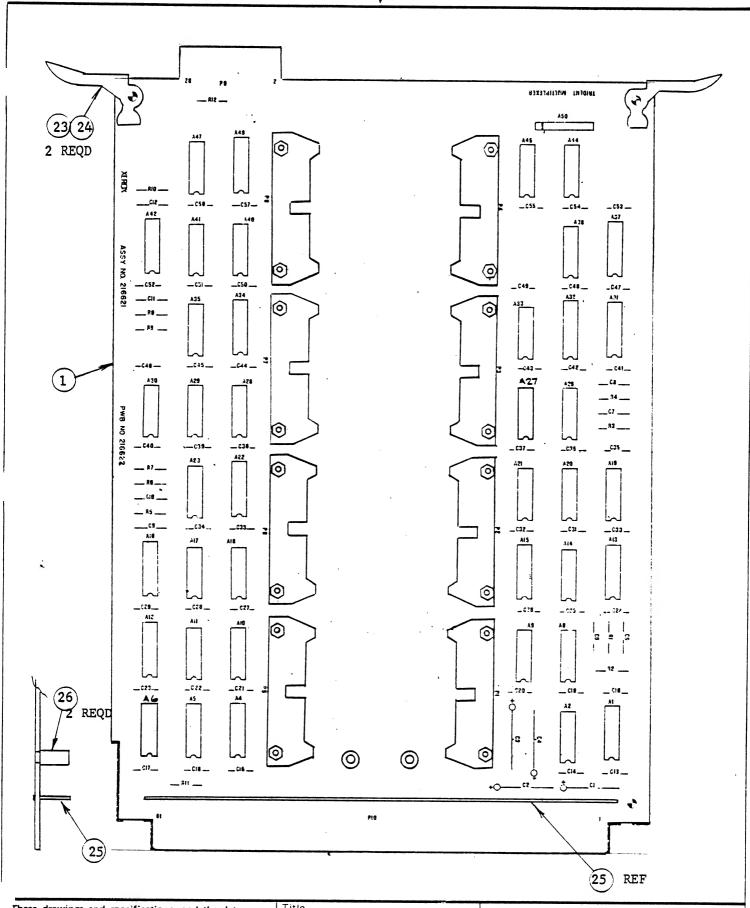
FROM	<u>TO</u>		
P1-3	P1-16		
P1-10	P1-23	13,26	14001
P2-3	P2-16	1	- 100
P2-10	P2-23	P4	P8
P3-3	P3-16		
P3-10	P3-23	100-1	
P4-3	P4-16	1 00 14	26 °° 13
P4-10	P4-23	12 26	
P5-3	P5-16	13 ₀ 26	14 00 1
P5-10	P5-23	70	
P6-3	P6-16	P3	; P7
P6-10	P6-23		11
P7-3	P7-16	1 00 14	26 °°13
P7-10	P7-23		
P8-3	P8-16	13 00 26	14 001
P8-10	P8-23	1 11	14 301
A 3 2- 6 6A1	A32-8	Po ! !	!!
6A2	12A2	P2	P6
6A3	17A2	1 00 14	26 9912
6A4	18A9	1 14	26 °°13
6A5	17A5	12 06	.,
6A6	34A2 41A2	13 ₉₉ 26	14 001
6A7	41A2 41A9		11
6A9	41A9 41A5	P1	P5
27A1	13A1		
27A2	8A12	1 00 14	26 ^{à c} 13
27A3	15A2		
27A4	14A9		
27A5	26A2	<u></u>	
27A6	26A12		
27A7 27A9	31A9 44A12	FIGURE I (ET	CCH SIDE)

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TRIDENT MULTIPLEXER

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Sheet	2	Of	9	



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El Segundo, California

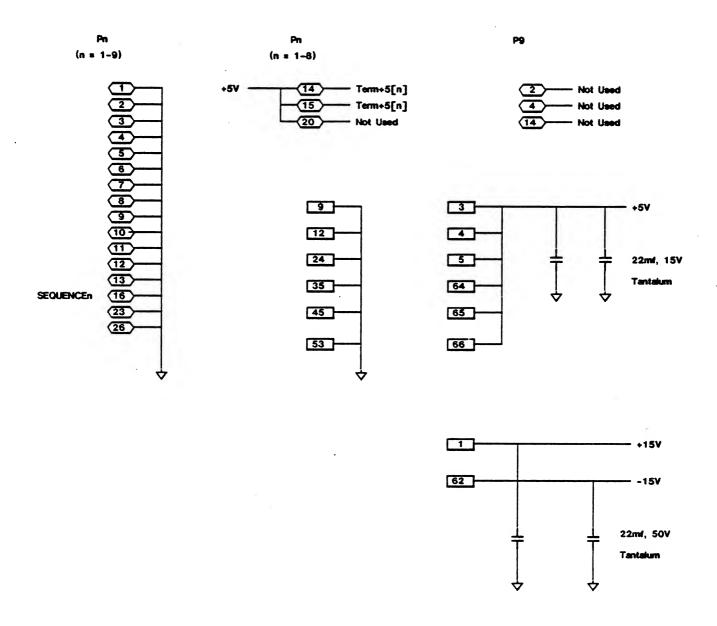
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Sheet 3 Of 9

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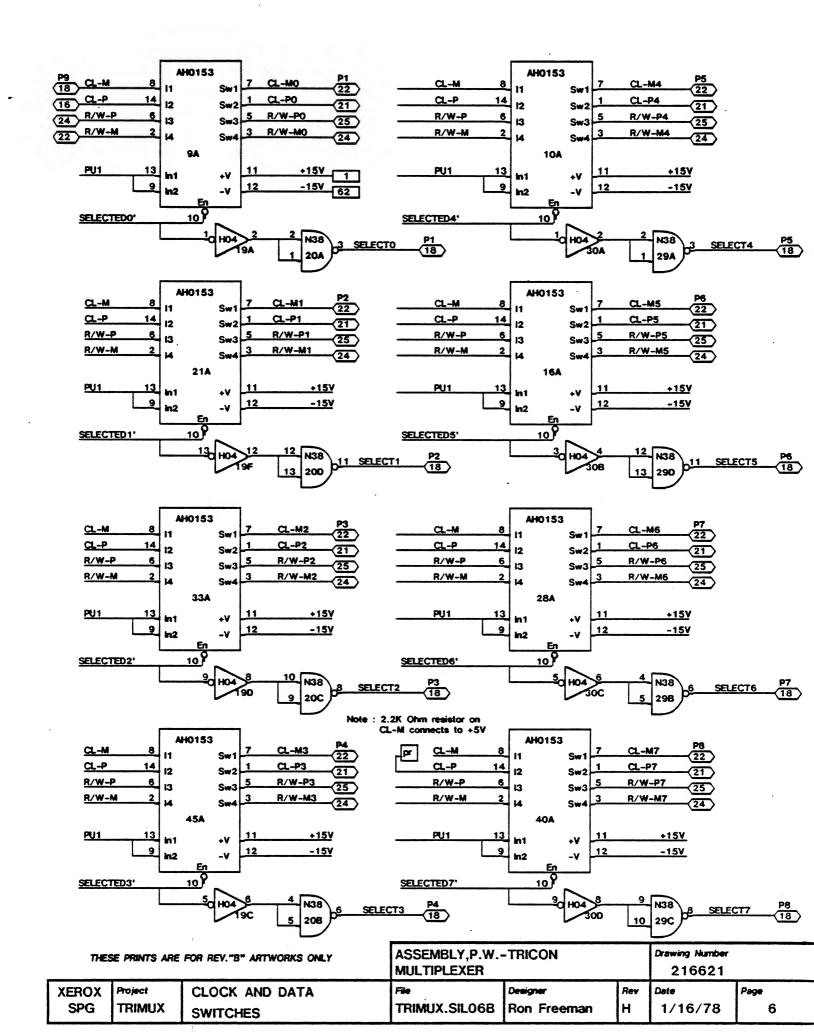


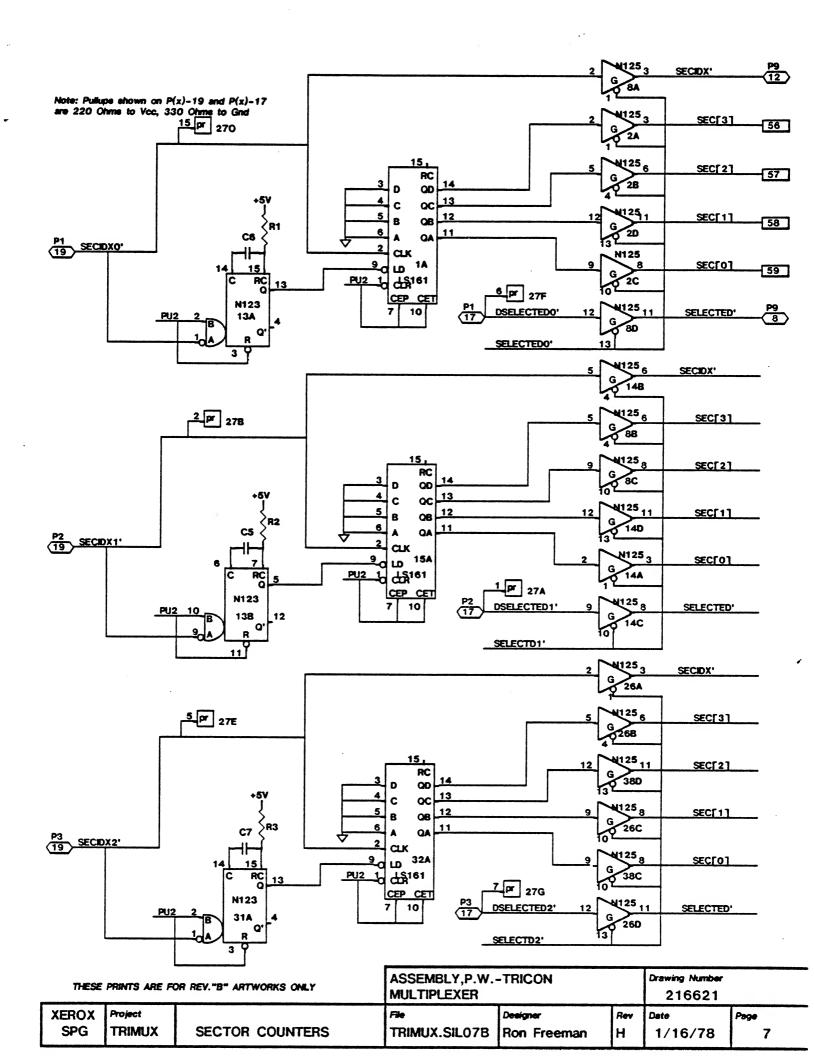
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o. 21		TRIDENT MULTIPLEXER	No. ALTO II	Date	5/5/77 Sheet 4 Of 9
Drawing No. 2 1662 1	Item No.	Drawing Title	Drawing No.	No. Req	
Drawii 2	1	BOARD, P.W.	216622	1	
	2				
M	3				
	4	MICROCIRCUIT, 74LS161		8	A1, 12, 15, 22, 32, 34,
					37, 46
	5	N 123		4	A 13, 18, 31, 42
	6	N 125		12	A2, 8, 11, 14, 17, 23,
					26, 35, 38, 41, 44, 47
	7	N 174		1,	A4
	8	I3205		1	A5
	9	AH0153		8	A9, 10, 16, 21, 28, 33,
					40, 45
	10	N38		2	A20, 29
	11	MICROCIRCUIT, H04		2	A19, 30
	12				
	13	CAPACITOR, 22µF, 15V	187720-005	2	C1, C2
	14	CAPACITOR, 18µF, 50V	123300-186	2	C3, C4
	15	CAPACITOR, 330 Pf	191175-031	8	C5, 6, 7, 8, 9, 10, 11, 12
	16	CAPACITOR, .01µF, 50V	188483-001	45	C13 THRU C57
	17	RESISTOR, NETWORK 220 1/330 (CTS 761-5-	220°/330a)	2	A6, A27
	18	RESISTOR, FILM, 27K ±5%, 1/4W	116447-273	9	R1 THRU R6, R9, 10, 11
	19	RESISTOR, FILM, 1K ±5%, 1/4W	116447-102	2	R7,R8
	20	RESISTOR, NETWORK, 1K	188600-007	1	A50
Ī	21	RESISTOR, FILM, 2.2K ±5%, 1/4W	116447-222	1	R12
	22	HEADER (26Pos) 3M# 3429-1002		8	P1-P8 (2)
	23	Extractor	216250	2	
	24	Rivet	156111-005	2	
	25	Stiffener	216242	1	
	26	Standoff, Threaded, PEM #KFE-632-16		2	(3)
	27	Socket, 14 Pin Augat #514-AG11D		24	(4)
	28	Socket, 16 Pin Augat #516-AG11D		16	(4)
	29	Bracket, Cable - Trident Mux	216628	1	5
•	106B(3/7	(3)			

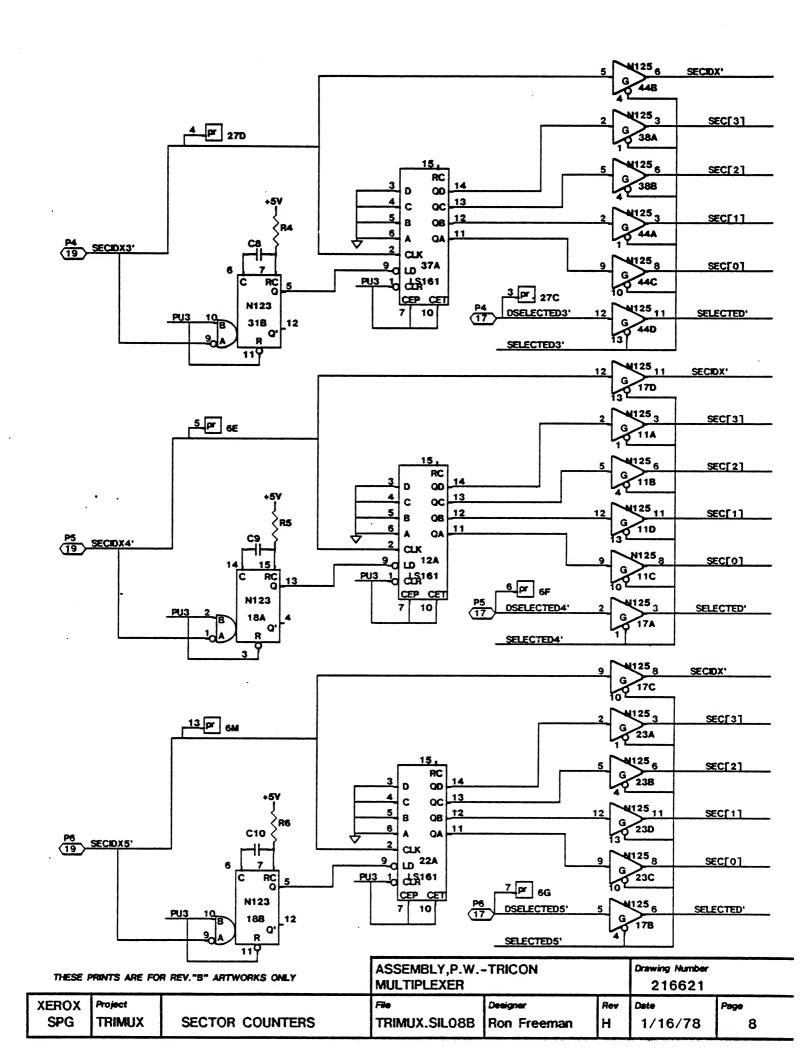


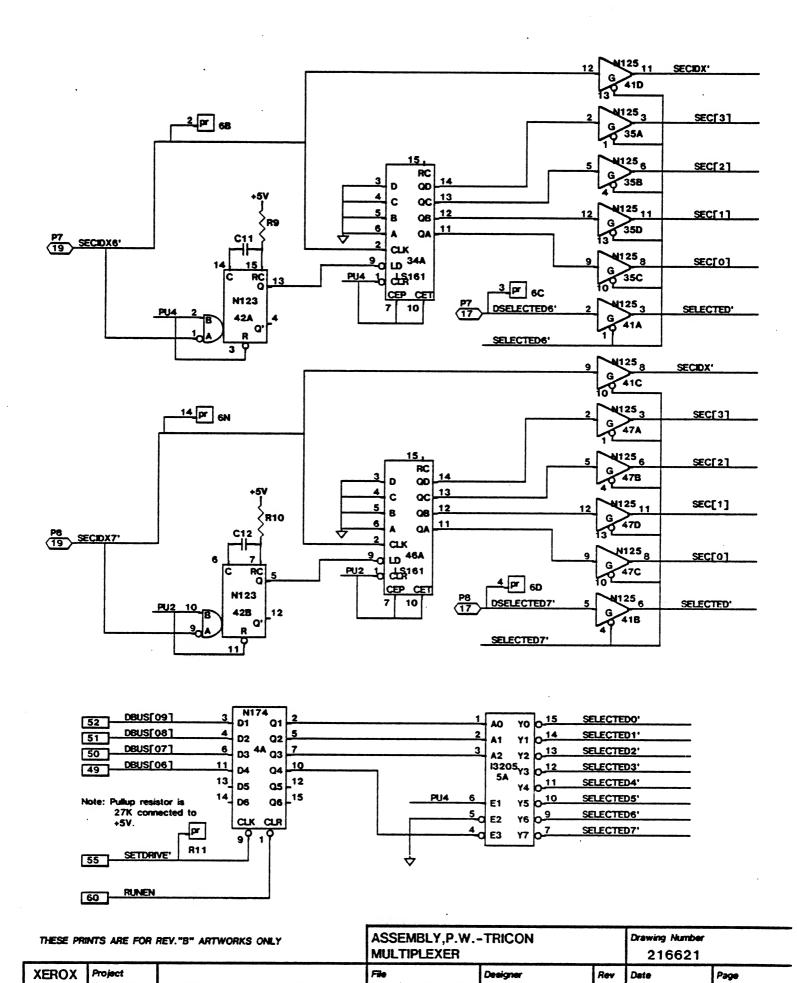
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			1	ASSEMBLY,P.W MULTIPLEXER	-TRICON		Drawing Number 216621	
XEROX SPG	Project TRIMUX	EXTERNAL CO VOLTAGE CO		File TRIMUX.SIL05B	Designer Ron Freeman	Rev H	Date 1/16/78	Page 5









TRIMUX.SIL09B

Ron Freeman

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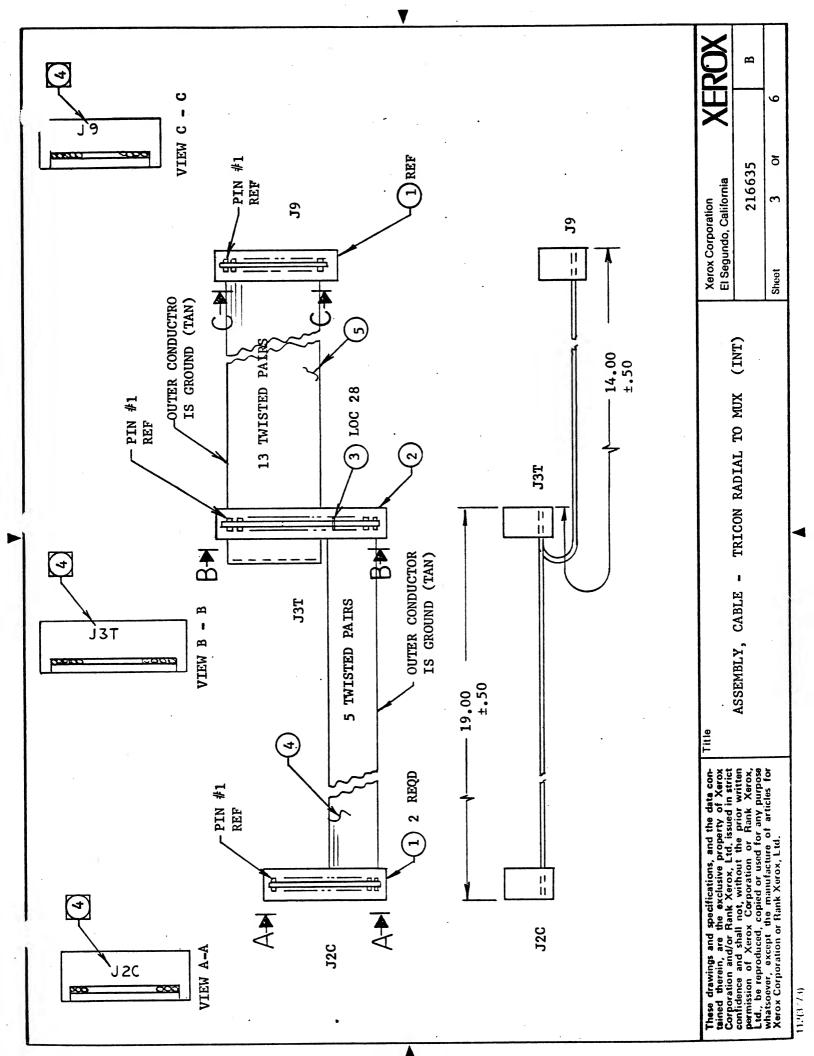
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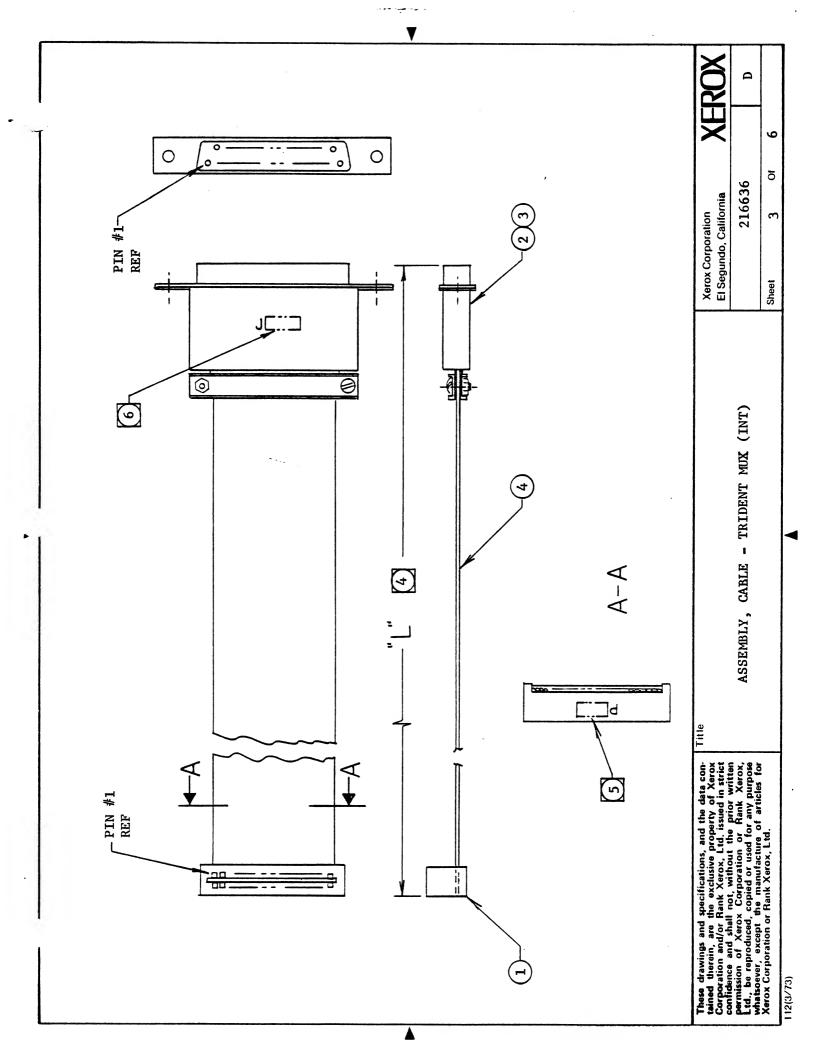
TRIMUX

SECTOR COUNTERS



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TABULATION CHART	"P" DESIGNATION	(MUX 0) (5) P1	P2	P3	P4	P5	P6	P7	(MUX 7) 5 P8
		6	1	2)	3)	4	5)	(9	7)
	NO.	MUX	(MUX 1)	(MUX 2)	(MUX 3)	(MUX 4)	(MUX 5)	(MUX 6)	MUX
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ASSEMBLY, CABLE - TRIDENT MUX (INT)

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216636
Sheet 4 of

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Wire No.	1	2	3	7	5	9	7	8	6	10	11	12	13	. 14	15	16	17	18	19	20	21	22	23	24	25	26	These drawings and specifications, and the data contained therein, are the exclusive property of Xerox Corporation and/Or Rank Xerox, Ltd. issued in strict confidence and shall not without the prior witten.	permission of Xero Ltd., be reproduced	Xerox Corporation o